

FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

MP00832 PRINT SET BALL-A

D-UA-G7273-0-0 BUSGRANT & NORM. PROC. GRANT
K-PL-G7273-0-0 BUSGRANT & NORM. PROC. GRANT PARTS LIST

C-UA-H3270-0-0 TEST CONNECTOR

D-IA-7016887-0-0 CABLE JUMPER ASS'Y

5.25"
L-BOX

10.5"
A-BOX

**UNIT VARIATIONS
COVERED BY THIS
PRINT SET**

11/24-AA
11/24-AB
11/24-AC
11/24-AD
11/24-XX
11/24-XY

11/24-BC
11/24-BD
11/24-YX
11/24-YY

Field Maintenance Print Set

11/24

Digital Equipment Corporation
MPO1018

REV.

NUMBER

SIZE	CODE
D	T

[illegible]

BLANK

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

**UNIT VARIATIONS
COVERED BY THIS
PRINT SET**

Field Maintenance Print Set

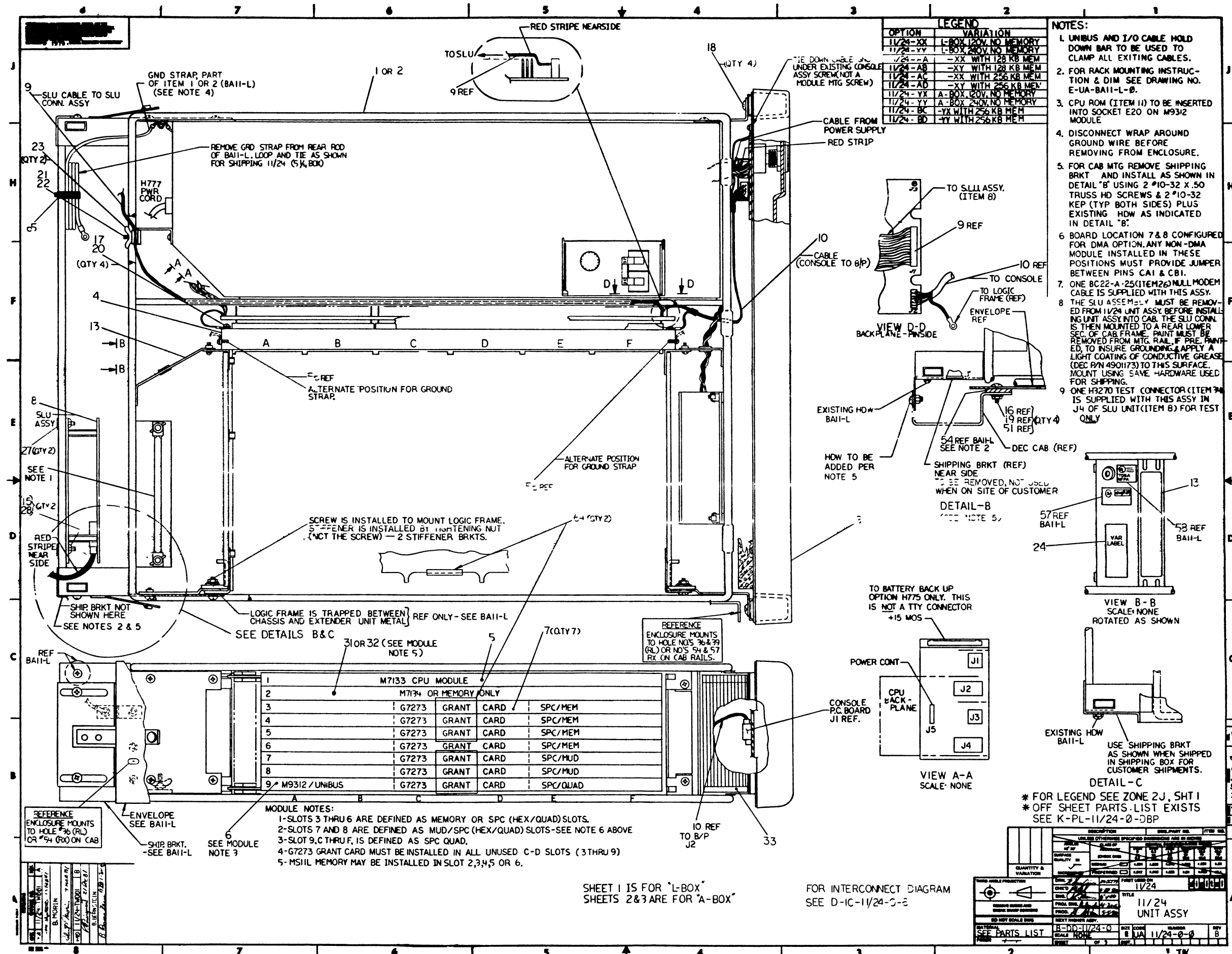
11/24

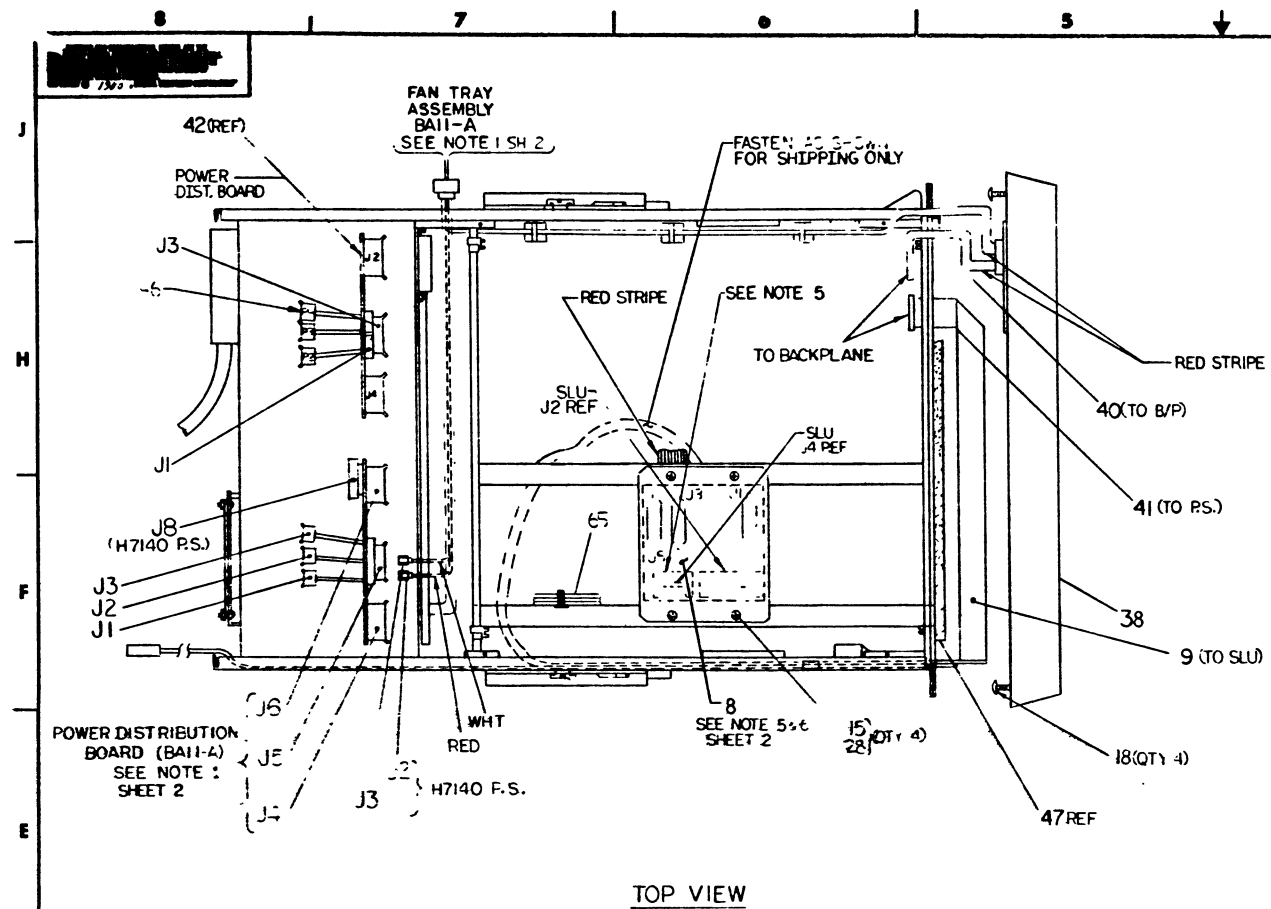
Digital Equipment Corporation

MP01018

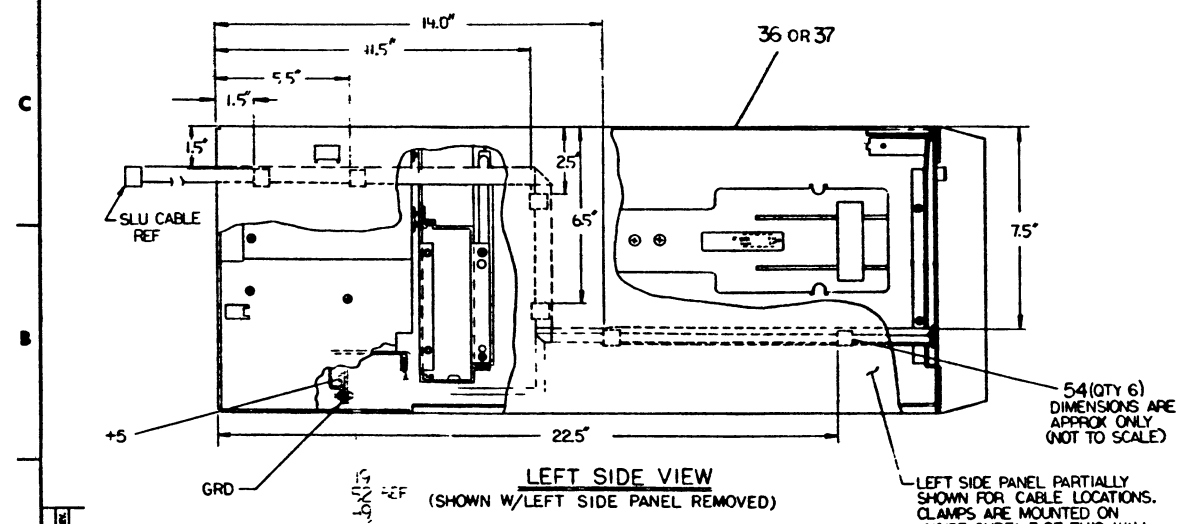
REVISIONS	REV		USED ON OPTION/MODEL		DRN.	DATE	digital										
	CHG. NO.			11/24		R. J. RILEY	8-4-80	TITLE: FIELD MAINT. PRINT SET 11/24									
						CHK'D	DATE										
						R. J. RILEY	8-4-80										
						PROJ. ENG.	DATE										
						R. GRUDA	8-4-80										
						FIELD SERV.	DATE										
						A. SCHMIDT	8-4-80										
	DATE			SHEET 2 OF 2				SIZE B	CODE TC	NUMBER 11/24-0-1				REV. D			
							DIST.										

DRB 124





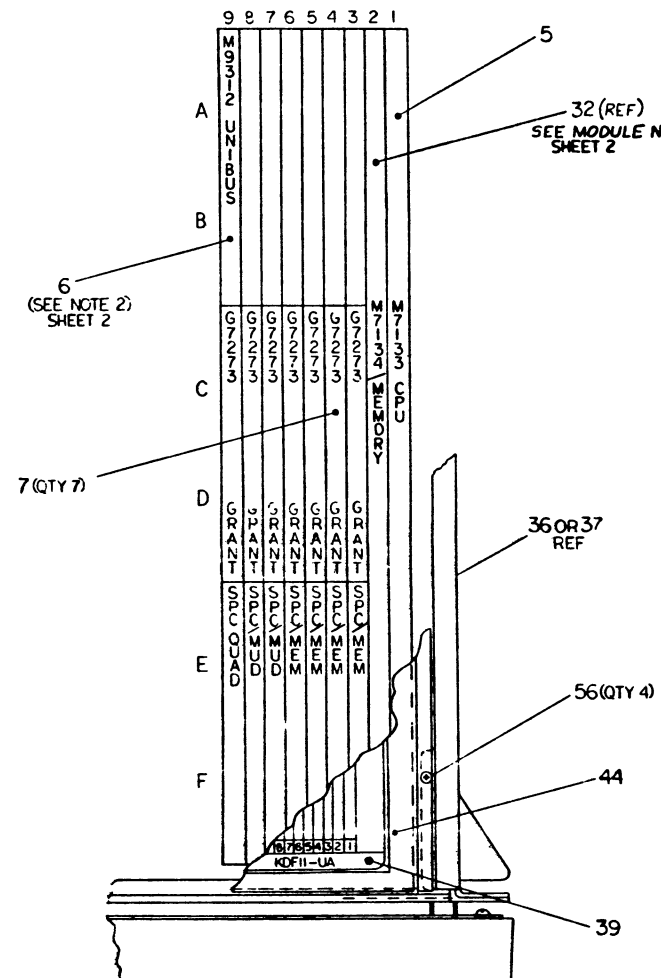
TOP VIEW



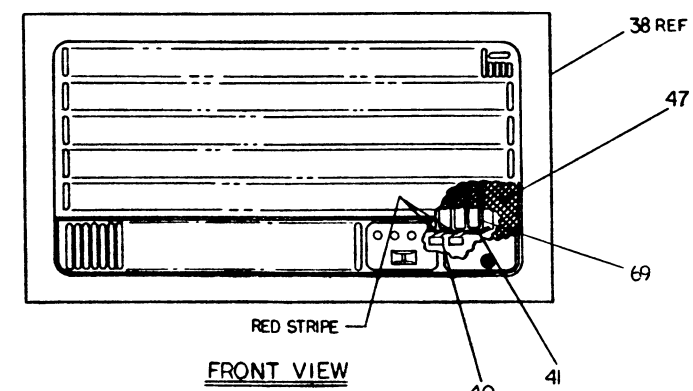
LEFT SIDE VIEW

(SHOWN W/LEFT SIDE PANEL REMOVED)

LEFT SIDE PANEL PARTIALLY SHOWN FOR CABLE LOCATIONS. CLAMPS ARE MOUNTED ON INSIDE SURFACE OF THIS WALL.



TOP VIEW
SCALE 1:1



FRONT VIEW

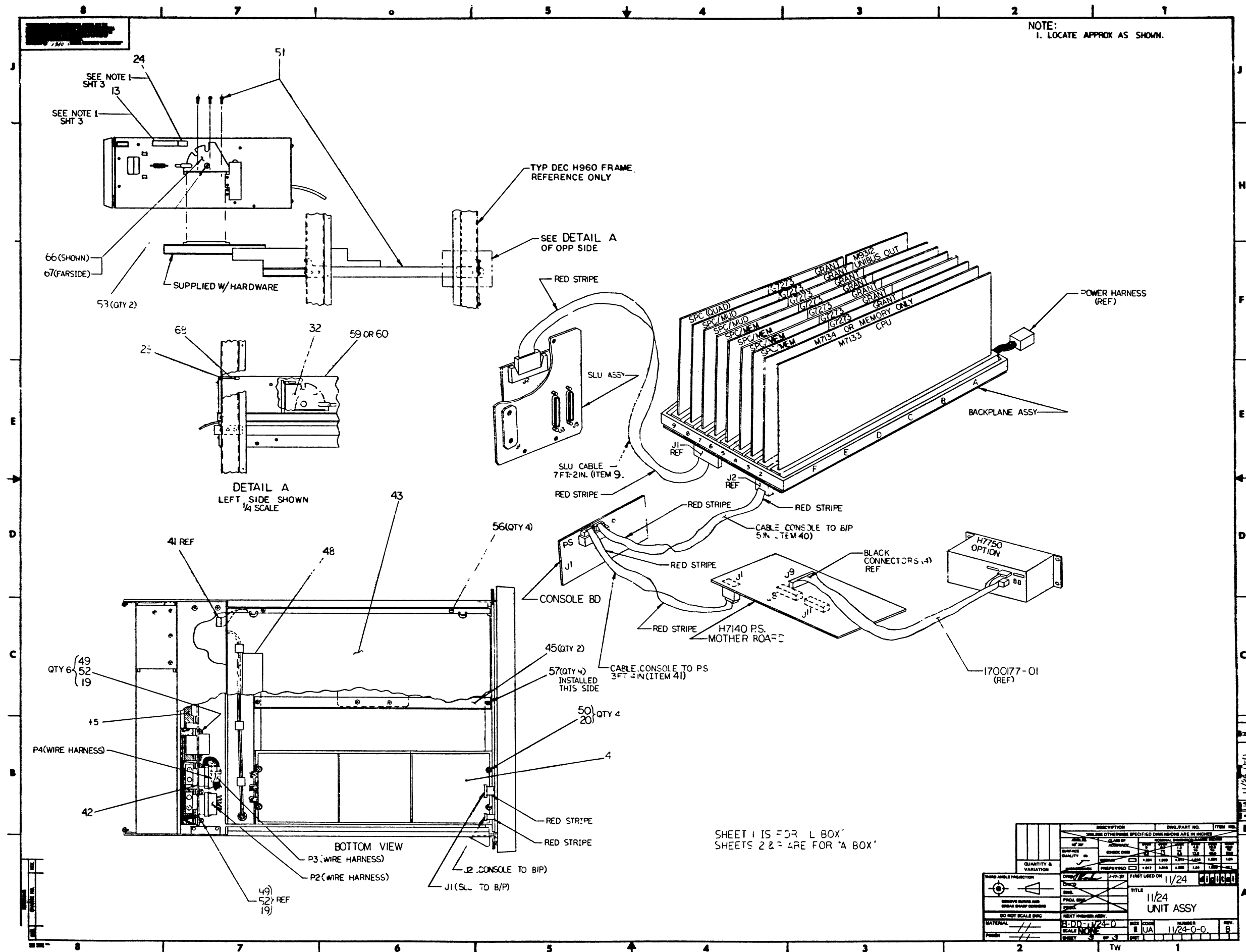
- NOTES:
1. FAN POWER HARNESS, POWER DIST. BOARD, AND FAN TRAY ASSY. ARE FROM E-14A-B411-A AND E-AD-70639-0-0 AND ARE LISTED AND SHOWN HERE, AS PART OF THE SYSTEM INTERCONNECTIVITY.
 2. CPU FROM ITEM 11) MUST BE INSERTED INTO SOCKET E20 ON M932 MODULE.
 3. THE SLU CONN ASSY MUST BE REMOVED FROM UNIT ASSY BEFORE INSTALLING UNIT ASSY INTO CABINET. THE SLU ASSY IS THEN MOUNTED TO A REAR LOWER SECTION OF CABINET FRAME. PAINT MUST BE REMOVED FROM MTG RAIL IF PRE-PAINTED TO ASSURE GROUNDING. APPLY A COATING OF CONDUCTIVE GREASE (DEC PN 490173) TO THIS SURFACE. MOUNT USING SAME HARDWARE USED FOR SHIPPING. DISCARD SHIPPING RAILS.
 4. ONE BC22A NULL MODEM ITEM 26 CABLE IS SUPPLIED WITH THIS ASSY.
 5. ONE H3270 TEST CONNECTION (ITEM 34) IS SUPPLIED WITH THIS ASSY IN J4 OF SLU UNIT (ITEM 8) FOR TEST ONLY.
 6. IF ANOTHER BACKPLANE (OPTIONAL) IS SHIPPED WITH THIS ASSY, THE SLU ASSY (ITEM 2) MUST BE SHIPPED SEPARATELY IN THE AUXILIARY SHIP KIT.

- MODULE NOTES:**
1. SLOTS 3 THRU 6 ARE DEFINED AS MEMORY OR SPC (HEX/QUAD) SLOTS.
 2. SLOTS 7 AND 8 ARE DEFINED AS SPC/MUD (HEX/QUAD) AND ARE CONFIGURED FOR DMA OPTION. ANY NON-DMA MODULE INSTALLED IN THESE POSITIONS MUST PROVIDE JUMPER BETWEEN PINS CA1 & CBI.
 3. SLOT 9, C THRU F, IS DEFINED AS SPC QUAD.
 4. G2723 GRANT CARD MUST BE INSTALLED IN ALL UNUSED C-D SLOTS (3 THRU 9).
 5. MSIL MEMORY MAY BE INSTALLED IN SLOT 2, 3, 4, 5 OR 6

FOR INTERCONNECT DIAGRAM
SEE E-IC-11/24-O-5

OFF SHEET PARTS LIST EXIST
SEE K-PL-11/24-O-13P

 		DESCRIPTION		QUANTITY		UNIT		PAGE	
		MIL-STD-883C		SPECIFIED		MIL-STD-883C		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	
 		QUANTITY & UNIT		SPECIFIED		MIL-STD-883C		PAGE 1	
		SPECIFIED		MIL-STD-883C		PAGE 1		PAGE 1	



AUTOMATED BY PRTLST.4Q(50)

PART C L I S T

SHEET A1 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY		PER VARIATION				YX	YY	BC	BD
					XX	XY	AA	AB	AC	AD				
1	1	E-UA-BA11-L-0	0BA11-LX	5.25" BOX W H777-UA PS,120V	1	0	0	0	0	0	0	0	0	0
2	2	E-UA-BA11-L-0	0BA11-LY	5.25" BOX W H777-UA PS,240V	0	1	0	0	0	0	0	0	0	0
3	3	E-AD-7016958-0-0	7016958-03	11/25 5.25 CONSOLE ASSY.	1	1	0	0	0	0	0	0	0	0
4	4	D-AD-7016905-0-0	7016905-00	1124-L BACKPLANE ASSY.	1	1	0	0	0	0	1	1	0	0
5	5	D-UA-M7133-0-0	M7133-00	11/24 C.P.U.	1	1	0	0	0	0	1	1	0	0
6	6	D-UA-M9312-0-0	M9312-00	BOOTSTRAP TERMINATOR W 5 EMPTY R	1	1	0	0	0	0	1	1	0	0
7	7	D-UA-G7273-0-0	G7273-00	BUS GRANT & NON-PROCESSOR GRANT	7	7	0	0	0	0	7	7	0	0
8	8	D-AD-7017466-0-0	7017466-02	SLU ASSY. (2 SERIAL LINES)	1	1	0	0	0	0	1	1	0	0
9	9	D-IA-7012214-0-0	7012214-10	CABLE CONSOLE (10 FT)	1	1	0	0	0	0	1	1	0	0
10	10	D-IA-7016962-0-0	7016962-00	CABLE ASSY B/P TO CONSOLE	1	1	0	0	0	0	0	0	0	0
11	11		23774F1-00	F1-01	1	1	0	0	0	0	1	1	0	0
12	13	A-DC-3617674-0-0	3617674-00	LABEL,SERIAL & POWER,UNIVERSAL	1	1	0	0	0	0	1	1	0	0
13	14	A-PS-3700187-0-0	3700197-00	INSTR PKG COMPUTER PDP11/04 INTE	1	1	0	0	0	0	0	0	0	0
14	15		9006071-01	SCREW,MACH PAN PHIL 10-	4	4	0	0	0	0	4	4	0	0
15	16		9006037-03	SCREW,MACH TRUSS PHIL 8-	REF.	REF.	0	0	0	0	0	0	0	0
16	17		9006043-01	SCREW,MACH PAN PHIL 8-	4	4	0	0	0	0	0	0	0	0
17	18		9006078-03	SCREW,MACH TRUSS PHIL 10-	0	0	0	0	0	0	4	4	0	0
18	19		9006660-00	WASHER,FLAT SST	REF.	REF.	0	0	0	0	6	6	0	0
19	20		9008072-00	WASHER,LOCK EXTERNAL STEEL	4	4	0	0	0	0	4	4	0	0
20	21	B-IA-7423591-0-0	7423591-00	CABLE, CLAMP BASE	1	1	0	0	0	0	0	0	0	0
21	22	B-MD-7423592-0-0	7423592-00	BAR CABLE CLAMP	1	1	0	0	0	0	0	0	0	0
22	23		9009711-00	NUT,WING 6-32X .50 WD ZINC	2	2	0	0	0	0	0	0	0	0
23	24	A-DC-3615946-0-0	3615946-00	LABEL,PRODUCT VARIATION	0	0	1	1	1	1	0	0	1	1
24	25	A-PS-3700061-0-0	3700061-00	INSTR PKG COMPUTER 11/05 OLD STY	0	0	1	1	1	1	0	0	0	0
25	26	B-PL-BC22A-0-0	BC22A-25	25FT RS232 SHIELDED NULL MODEM C	0	0	1	1	1	1	0	0	1	1
26	27	C-MD-7424589-0-0	7424589-00	BRACKET SHIPPING SLU	2	2	0	0	0	0	0	0	0	0
27	28		9006565-00	NUT,HEX EXT TOOTH LCKWSHR 10-32	4	4	0	0	0	0	4	4	1	1
28	29	E-UA-11/24-0-0	11/24-XX	KDF11-UA,BA11-LX,M9312,120V	0	0	1	0	1	0	0	0	0	0
29	30	E-UA-11/24-0-0	11/24-XY	KDF11-UA,BA11-LY,M9312,240V (NO	0	0	0	1	0	1	0	0	0	0
30	31	D-UA-MS11-L-0	OMS11-LB	MS11-LB 64K 18 BIT MOS MEM W PAR	0	0	1	1	0	0	0	0	0	0

REVISION HISTORY			BASIC PART NO: 11/24		DRN: MARK CARROLL		DATE: 23-APR-80		D I G I T A L							
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: R.J.RILEY		DATE: 23-APR-80		TITLE PARTS LIST							
INITIAL		*	SECTION VARIATION INDEX		DES.ENG.: R. MORIN		DATE: 23-APR-80		11/24 UNIT ASSEMBLY							
INITIAL		*	[A] XX,XY,AA,AB,AC,AD, YX,YY,BC,BD		RESP.ENG.: R. GRUDA		DATE: 23-APR-80		DOCUMENT NUMBER							
BM	11/24-TW001	A	[B]		MFG.ENG.: G. ABRED		DATE: 23-APR-80		SIZE: K		CODE: PL		NUMBER: 11/24-0-DBP		REV: B	
BM	11/24-TW001	A	[C]		ASSEMBLY NUMBER: E-UA-11/24-0-0		TOP DOCUMENT NUMBER: B-DD-11/24-0-0		FILE NAME: Z1318B.PLS		EDIT #		30			
BB	11/24-TW002	B	[D]													
			[E]													
			[F]													
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AUTOMATED BY PRTLIST 4Q(50)			P A R T S L I S T					SHEET A2 OF A2							
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY XX	XY	PER AA	VARIATION AB	AC	AD	YX	YY	BC	BD	
31	32	D-UA-MS11-L-0	OMS11-LD	MS11-LD 128K 18 BIT MOS MEM W PA	0	0	0	0	1	1	0	0	1	1	
32	33	A-PS-3618175-0-0	3618175-01	LABEL,MODULE UTIL.	1	1	0	0	0	0	0	0	0	0	
33	34	C-UA-H3270-0-0	H3270-00	DLV11-J LOOPBACK TEST PLUG	1	1	0	0	0	0	1	1	0	0	
34	35	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	
35	36	E-UA-BA11-A-0	OBA11-AA	10.5"BOX,H7140-AA PS,120V LINE C	0	0	0	0	0	0	1	0	0	0	
36	37	E-UA-BA11-A-0	OBA11-AB	10.5"BOX,H7140-AB PS,240V LINE C	0	0	0	0	0	0	0	1	0	0	
37	38	E-AD-7016958-0-0	7016958-01	11/24 10.25 CONSOLE ASSY.	0	0	0	0	0	0	1	1	0	0	
38	39	A-PS-3618176-0-0	3618176-01	LABEL,MODULE UTIL.	0	0	0	0	0	0	1	1	0	0	
39	40	D-AD-7011411-0-0	7011411-0F	CABLE CONSOLE BACKPLANE	0	0	0	0	0	0	1	1	0	0	
40	41	D-AD-7011411-0-0	7011411-3D	CABLE, CONSOLE BACKPLANE	0	0	0	0	0	0	1	1	0	0	
41	42	D-UA-5413815-0-0	5413815-00	POWER DIST. BOARD ASSY.	0	0	0	0	0	0	1	1	0	0	
42	43	D-AD-7016479-0-0	7016479-00	BOTTOM COVER ASSY.	0	0	0	0	0	0	1	1	0	0	
43	44	D-MD-7421614-0-0	7421614-00	TOP COVER	0	0	0	0	0	0	1	1	0	0	
44	45	D-MD-7424842-0-0	7424842-00	RAIL,SLU,SHIPPING	0	0	0	0	0	0	2	2	0	0	
45	46	D-IA-7016887-0-0	7016887-00	CABLE,JUMPER ASSY	0	0	0	0	0	0	1	1	0	0	
46	47	A-PS-1216271-0-0	1216271-00	FILTER,AIR FOAM 020PPI	0	0	0	0	0	0	1	1	0	0	
47	48	A-DC-3615087-0-0	3615087-02	LABEL,"DANGER-HIGH CURRENT"	0	0	0	0	0	0	1	1	0	0	
48	49		9006039-01	SCREW,MACH PAN PHIL 8-	0	0	0	0	0	0	6	6	0	0	
49	50		9006043-03	SCREW,MACH TRUSS PHIL 8-	0	0	0	0	0	0	4	4	0	0	
50	51	E-PS-1216971-0-0	1216971-00	CHASSIS SLIDE FOR BA11-A	0	0	0	0	0	0	0	0	1	1	
51	52		9006690-00	WASHER,HELICAL SPLIT SST	0	0	0	0	0	0	6	6	0	0	
52	53	B-PS-1216197-0-0	1216197-00	SCREW,PIVOT	0	0	0	0	0	0	0	0	2	2	
53	54		9009636-00	CLAMP, CABLE, FOR FLAT CABLE	0	0	0	0	0	0	6	6	0	0	
54	55	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	
55	56		9009701-00	SCREW,SEMS PAN PHIL 6-	0	0	0	0	0	0	8	8	0	0	
56	57		9009545-00	SCREW,SEMS PAN PHIL 8-	REF	REF	0	0	0	0	4	4	0	0	
57	58	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	
58	59	E-UA-11/24-YX-0	11/24-YX	KDF11-UA,BA11-AA,M9312,120V (NO	0	0	0	0	0	0	0	0	1	0	
59	60	E-UA-11/24-YY-0	11/24-YY	KDF11-UA,BA11-AB,M9312,240V (NO	0	0	0	0	0	0	0	0	0	1	
60	61	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	
61	62	A-SP-3700472-0-0	3700472-00	INSTR PKG COMPUTER(BA11-A)	0	0	0	0	0	0	1	1	0	0	
62	63	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	
63	64		1209856-02	CLIP, MODULE HOLDER W/O SEPARA	2	2	0	0	0	0	0	0	0	0	
64	65		9007031-00	TIE,CABLE BUNDL DIA 0- 3/4"=101	1	1	0	0	0	0	0	0	0	0	
65	66	D-MA-7421613-0-0	7421613-00	SLIDE INDEX PLATES	0	0	0	0	0	0	0	0	1	1	
66	67	D-MD-7421316-0-1	7421613-01	SLIDE INDEX PLATE	0	0	0	0	0	0	0	0	1	1	
67	68	C-MD-7413659-0-0	7413659-00	BRACKET SHIPPING	0	0	0	0	0	0	0	0	1	1	
68	69		9007035-00	GROMMET,CATERPILLAR POLYAMIDE	0	0	0	0	0	0	0	0	0	0	

D	I	G	I	T	A	L	TITLE	11/24 UNIT ASSEMBLY	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	11/24-0-DBP	B

DIGITAL EQUIPMENT CORPORATION PARTS LIST

NOTES:

NEW DRAWING RELEASED AT REVISION B.
REVISION A WAS A MISNUMBER AND HAS BEEN
ASSIGNED A NEW DRAWING NUMBER.

MADE BY	A. ROCHA
DATE	10-DEC-80

CHECKED *RDH*
DATE *15 JAN 81*

SECTION

ENG *Rp morio*
DATE *15 JAN 81*

PROD *R. T. Japanese*
DATE *1-15-81*

ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	11/	11/	11/	11/	11/	11/							REF DESIGNATION
1	E-UA-11/24-0-0	11/24-XX	BA11-LX,H777-UA P.S,W/O MEM,115V	1	-	1	-	-	-							
2	E-UA-11/24-0-0	11/24-XY	BA11-LY,H777-UB P.S.,W/O MEM,230V	-	1	-	1	-	-							
3	E-UA-11/24-0-0	11/24-YX	BA11-AA,H7140-AA P.S.,W/O MEM,115V	-	-	-	-	1	-							
4	E-UA-11/24-0-0	11/24-YY	BA11-AB,H7140-AB P.S.,W/O MEM,230V	-	-	-	-	-	1							
5	D-UA-MS11-L-0	MS11-LB	MS11-LB,64K 18 BIT MOS MEM	1	1	-	-	-	-							
6	D-UA-MS11-L-0	MS11-LD	MS11-LD, 128K 18 BIT MOS MEM	-	-	1	1	1	1							
7	B-PL-BC22A-0-0	BC22A-25	BC22A-10 EXCEPT 25 FT	1	1	1	1	1	1							
8	E-PS-1216971-0-0	1216971	CHASSIS SLIDE AND HDW KIT	-	-	-	-	1	1							
9	B-PL-11/24-0-3		11/24 SOFTWARE LIST	1	1	1	1	1	1							
10	A-PL-11/24-0-4		HARDWARE KIT LIST	1	1	1	1	-	-							
11	A-PS-3700061-0-0	3700061-00	PACK INSTRUCTIONS	1	1	1	1	-	-							
12	A-PS-3700197-0-0	3700197-00	PACK INSTRUCTIONS, INTER.	1	1	1	1	-	-							
13	A-SP-3700472-0-0	3700472-00	INSTR. PACK KIT	-	-	-	-	1	1							
15	C-MD-7413659-0-0	7413659-00	SHIPPING BRACKET	-	-	-	-	1	1							
16		9006565-00	NUT,KEP, 10-32 X 3/8 AF	-	-	-	-	1	1							

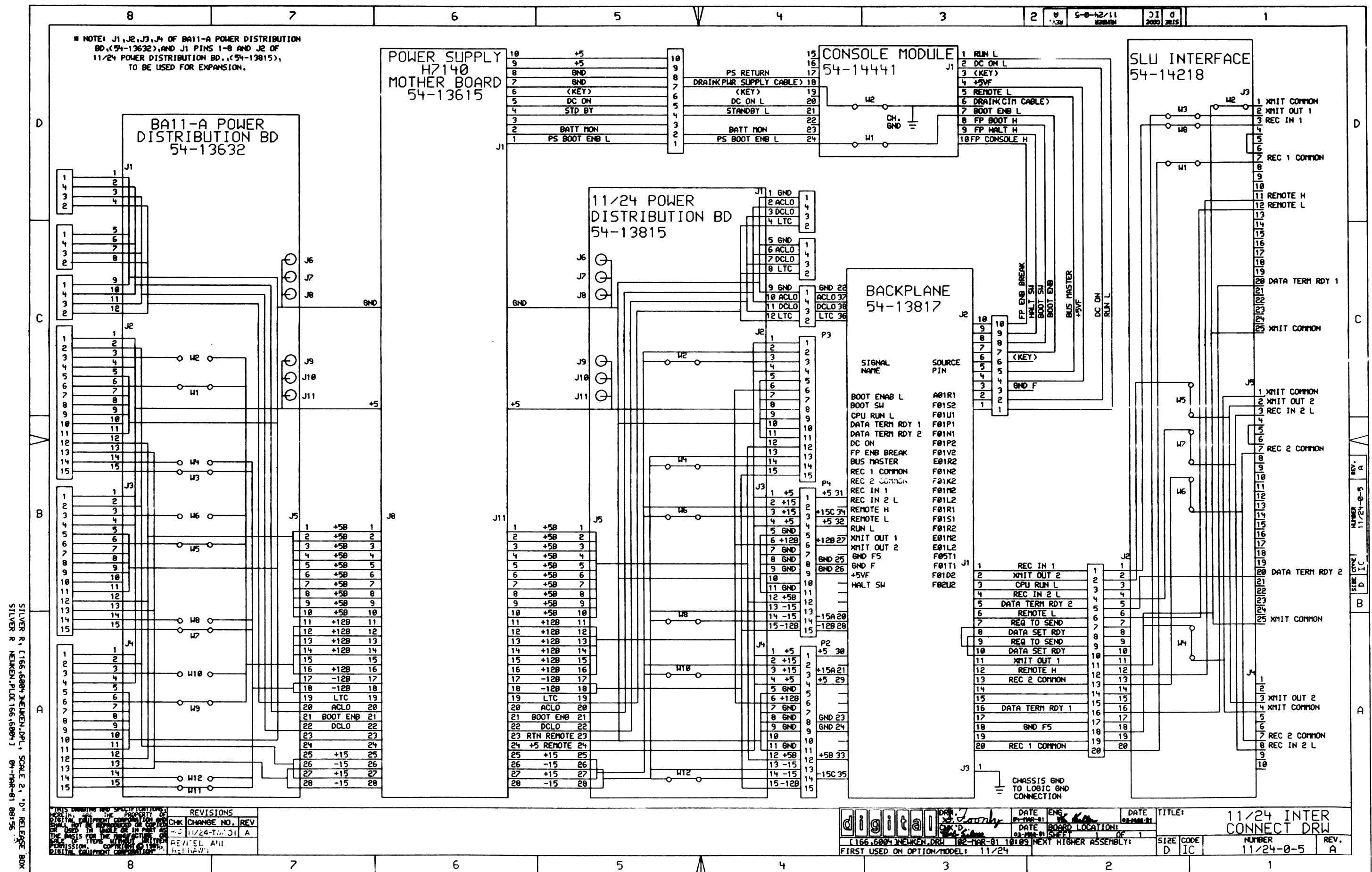
E.C.O. NO.	11/24 - TW001	11/24 - TW002										
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					SHEET 1 OF 1		INSERTION PARTS LIST DATA BASE REV					

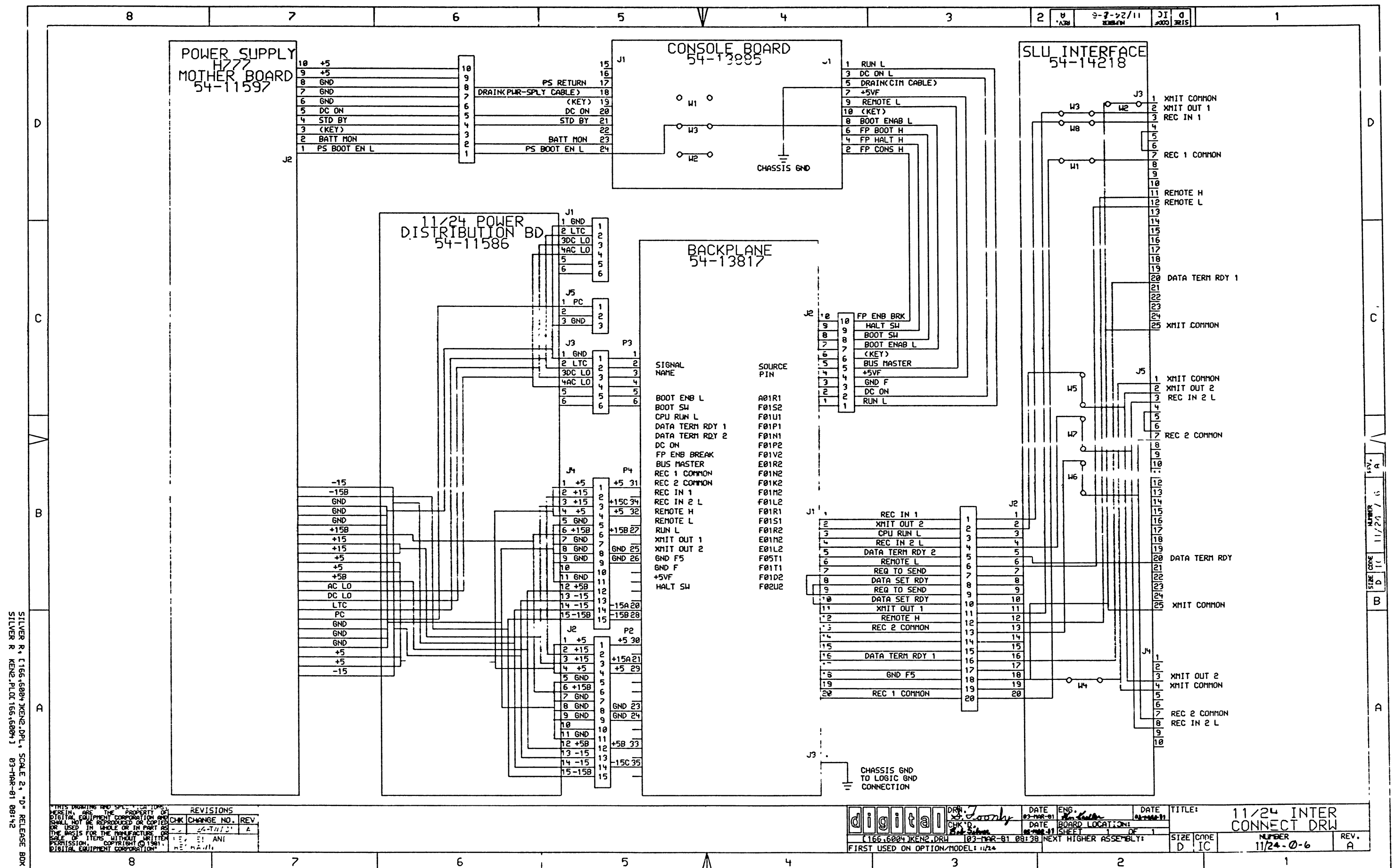
DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION										NOTES: RELEASED AT A "B" REV.				
MADE BY A. ROCHA DATE 10-DEC-80		CHECKED <i>RPmorin</i> DATE 15 JAN 81		SECTION		11/24-AA	11/24-AB	11/24-AC	11/24-AD	11/24-BC	11/24-BD							
ENG <i>RPmorin</i> DATE 15 JAN 81		PROD <i>J. Hyman</i> DATE 1-15-81		ISSUED SECTION														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION															REF DESIGNATION
1	EK-11-024-TM-001		PDP 11/24 SYSTEM TECH MANUAL	1	1	1	1	1	1									
2		MP00672	MS11-L PRINT SET	1	1	1	1	1	1									
3	EK-MS11L-UG-001		MS11-L MOS MEMORY USERS GUIDE	1	1	1	1	1	1									
4	B-TC-11/24-0-1	MP01018	FIED MAINT PRINT SET	1	1	1	1	1	1									
5	ZJ013-FR ZJ013-PB		11/24 BASIC CPU KIT (FICHE) 11/24 BASIC CPU KIT (PAPERTAPE)	1	1	1	1	1	1									
6	A-PS-1700163-00	(SHEET 6 & 7 ONLY)	BC22A-25 PRINT SET	1	1	1	1	1	1									
7	EK-M9312-TM		TECH MANUAL (M9312)	1	1	1	1	1	1									
8		MP00617	M9312 PRINT SET	1	1	1	1	1	1									
9	EK-BAl1L-MM-PRE		BAl1-L MAINT. MANUAL	1	1	1	1	-	-									
10	EK-BAl1A-TM-001		BAl1-A USER'S GUIDE	-	-	-	-	1	1									
11	A-SP-H7750-0-3		BATTERY BACK-UP INSTALLATION	-	-	-	-	1	1									
12	A-SP-BAl1-AJ-03		CONVERSION KIT (120V-240V)	-	-	-	-	1	1									
13	EK-FS003-IN		PDP-11 INSTALLATION/ACCEPT PROCEDURE	1	1	1	1	1	1									
14			11/24 POCKET REFERENCE GUIDE	1	1	1	1	1	1									
E.C.O. NO. 11/24-TW001 11/24-TW002																		
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				SHEET 1 OF 1				INSERTION PARTS LIST DATA BASE REV										

DIGITAL EQUIPMENT CORPORATION PARTS LIST						QUANTITY / VARIATION										NOTES:			
MADE BY DATE		A. ROCHA 10-DEC-80		CHECKED <i>R. Morin</i> DATE <i>15 JAN 81</i>		SECTION												ITEMS 1 THRU 4 MOUNT L-BOX ENVELOPE TO CABINET REAR RAILS AND ITEM 5 AND 6 MOUNT ENVELOPE TO CABINET FRONT RAILS.	
ENG DATE		R. MORIN <i>Rm</i> 12-NOV-80		PROD <i>A & Duponier</i> DATE <i>1-15-81</i>		ISSUED SECTION													
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION		11/24-0-4											REF DESIGNATION			
1	B-MD-7418259-0-0	7418259-00	SPACER ENCLOSURE		4														
2		9006037-03	SCREW, TR HD, PN 8.32x.38LG		4														
3		9006660-00	WASHER, FLAT NO. 8		4														
4		9008072-00	WASHER, LOCK, EXT TH. NO. 8		4														
5		9006071-03	SCREW, TR HD, PH, 10-32x.38LG		4														
6		9007786-00	RETAINER, U-NUT, 10-32		4														
			(BAG & TAG KIT FORM)																

E.C.O. NO. 11/24-TW001	TITLE 11/24 HARDWARE KIT LIST					ASSY NO. B-DD-11/24-0		SIZE B	CODE PL	NUMBER 11/24-0-4	REV. A
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FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

B-TC-BALL-A-1	FIELD MAINT. PRINT SET MP00832	
B-DD-BALL-A	DRAWING DIRECTORY - BALL-A UNIT ASSY	
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K-PL-BALL-A-DBP	BALL-A UNIT ASSY - P/L	
E-AD-7016391-0-0	BALL-A BOX ASSEMBLY	
K-PL-7016391-0-DBP	BALL-A BOX ASSY - P/L	
C-IA-7016901-0-0	FAN POWER HARNESS	SEE B-DD-BA
D-AD-7016472-0-0	FAN TRAY ASSEMBLY	DWG. DIRE
K-PL-7016472-0-DBP	FAN TRAY ASSY - P/L	
MP00837	H7140 POWER SUPPLY	
D-AD-7016888-0-0	POWER DISTRIBUTION BD. ASSEMBLY	
D-UA-5413632-0-0	POWER DISTRIBUTION BD.	
D-CS-5413632-01	CIRCUIT SCHEMATIC (PWR DISTRIBUTION BD.)	
E-AD-7016493-0-0	BALL-A BOX FRAME ASSEMBLY	
K-PL-7016493-0-DBP	BALL-A BOX FRAME ASSY - P/L	
C-IA-7016392-0-0	FAN CABLE ASSY	
D-AD-7016887-0-0	POWER DISTRIBUTION BD. HARNESS ASSY	

SEE
B-DD-BALL-AE
DWG. DIRECTORY

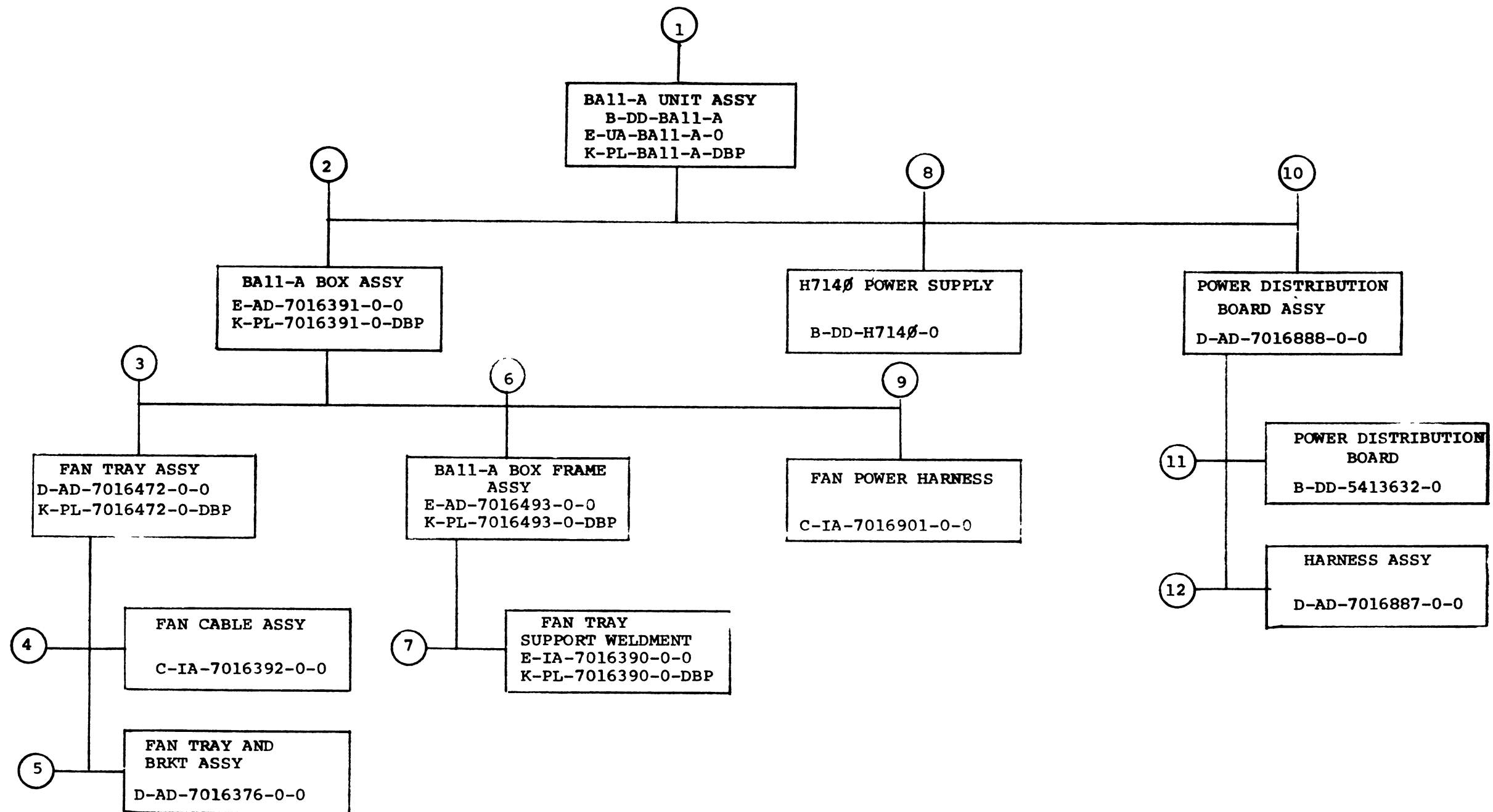
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**Field Maintenance
Print Set**

BA11-A

**Digital Equipment
Corporation**
MP00832

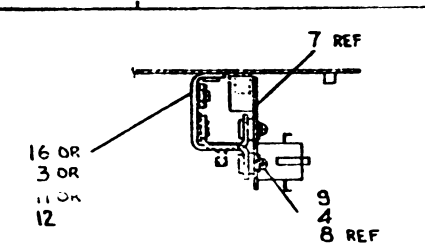
REVISIONS	REV.	A	B		USED ON OPTION/MODEL	DRN. JOHN NAGLE	DATE 30 JUN 79	TITLE: BALL-A UNIT ASSEMBLY										digital										
	CHG. NO.	BALL-A-TW	BALL-A-ML002			11/44												CHK'D	DATE									
						11/24												P. HELG	8/17/79									
						11/730-A																						
	DATE		90X 7-29-83				PROJ. ENG.	DATE	SIZE B										CODE TC		NUMBER BALL-A-1						REV. B	
							R. GRUDA	8/17/79																				
							FIELD SERV.	DATE																				
							RALPH EVANS	8/17/79																				
						SHEET 1 OF 1				DIST.																		



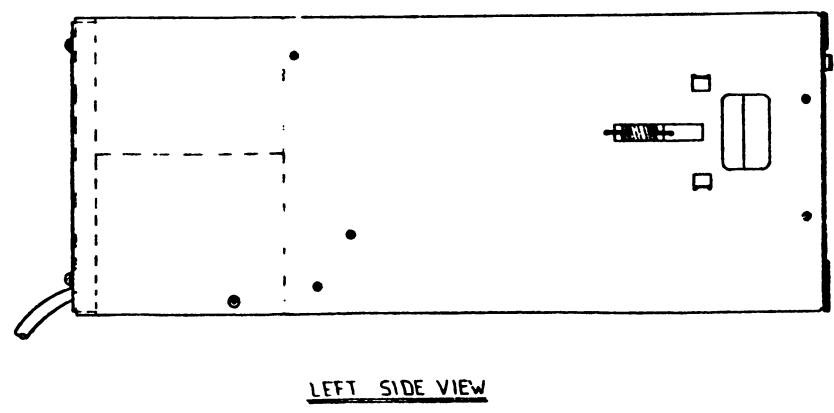
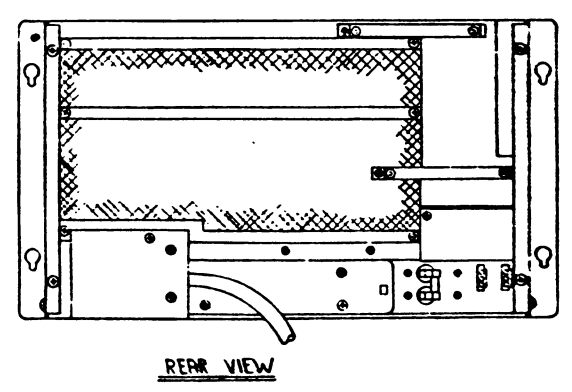
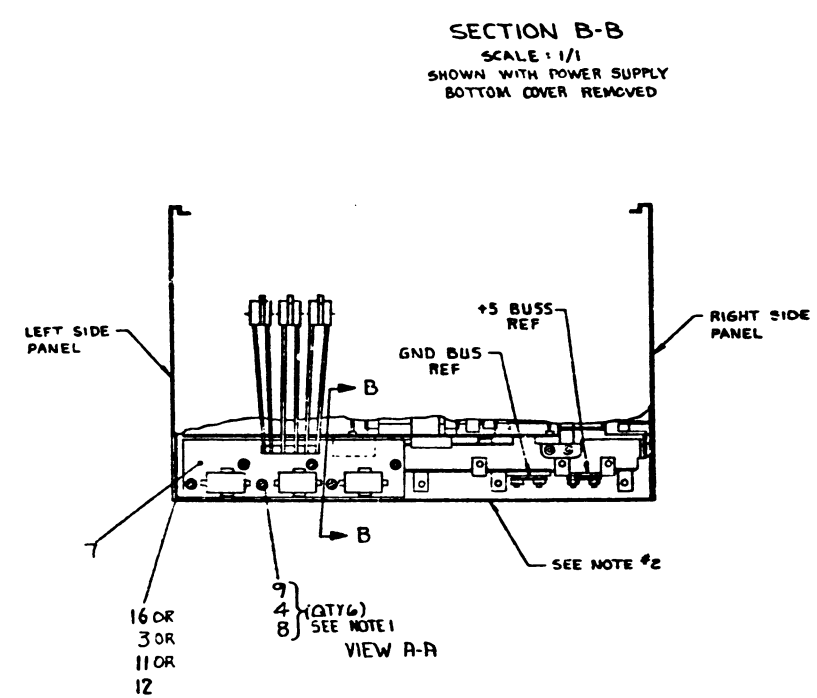
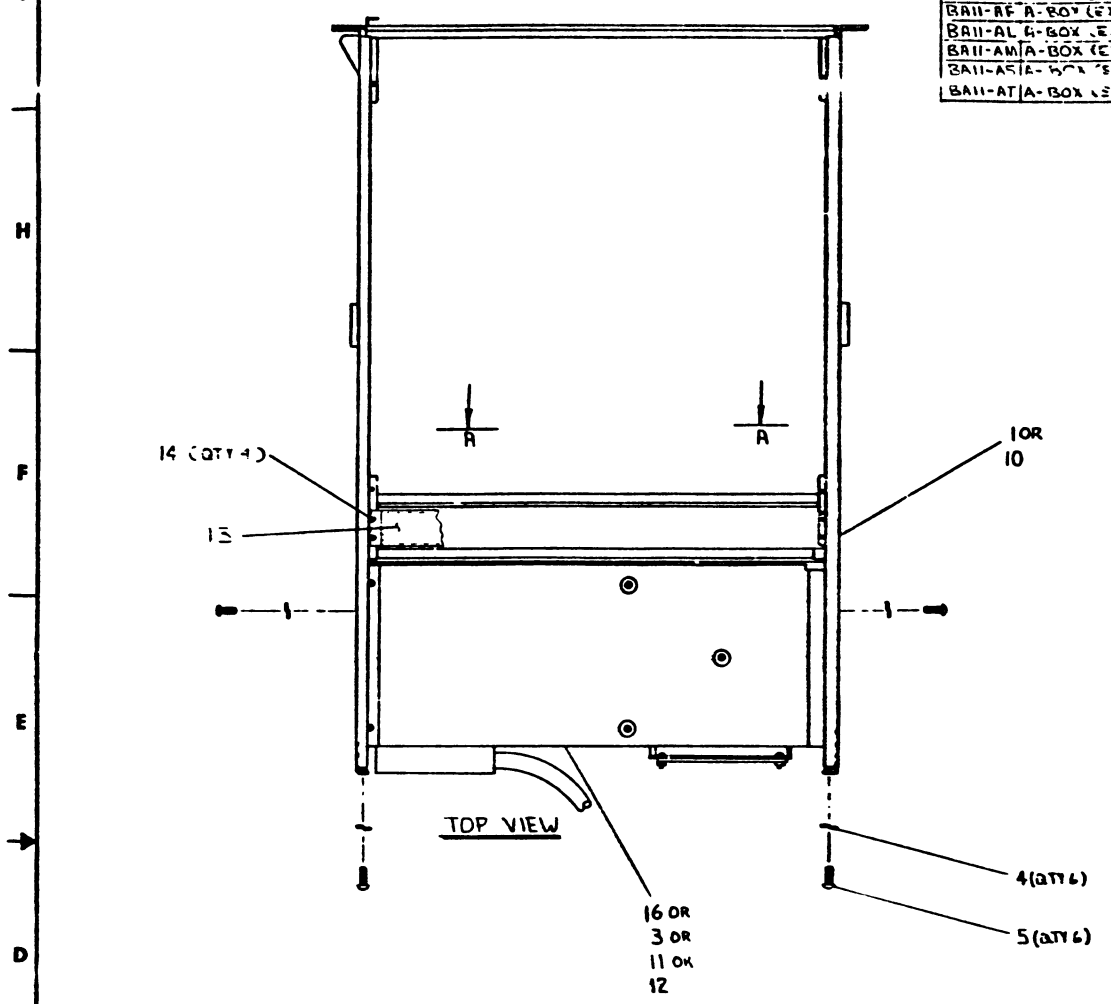
TITLE	SHEET 2 OF 3	SIZE	CODE	NUMBER	REV.
Ball-A UNIT ASSY		B	DD	Ball-A	B

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LEGEND	
VAR.	DESCRIPTION
BAIL-AA	A-BOX (STD) W/HT140-AA P.S., 120V
BAIL-AH	A-BOX (STD) W/HT140-AH P.S., 240V
BAIL-AE	A-BOX (EXP) - SEE B-DD BAIL-AE
BAIL-RE	A-BOX (EXP) - SEE B-DD BAIL-AE
BAIL-AL	A-BOX (EXP) - SEE B-DD BAIL-AE
BAIL-AM	A-BOX (EXP) - SEE B-DD BAIL-AE
BAIL-ASIA	A-BOX (EXP) W/HT140-CL P.S., 120V
BAIL-AT	A-BOX (STD) W/HT140-CE P.S., 240V



- NOTES:
1. TORQUE ITEMS 3 TO 22 N/BS
 2. POWER SUPPLY BOTTOM COVER MUST BE REMOVED TO INSTALL POWER DISTRIBUTION BOARD (ITEM 7).



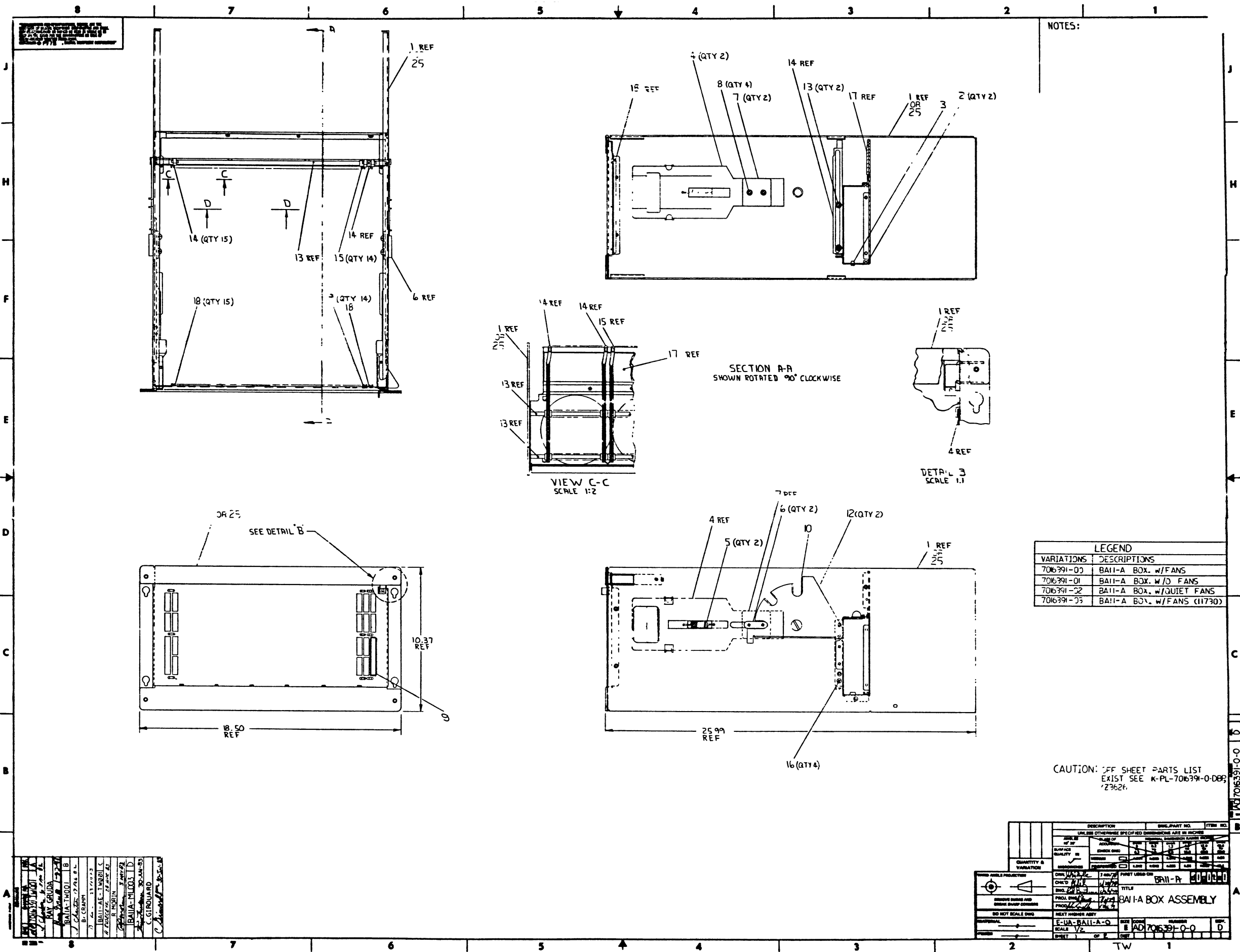
REV	DESCRIPTION	DATE
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2	REVISED TO ADD DIMENSIONS	1/15/71
3	REVISED TO ADD DIMENSIONS	1/15/71
4	REVISED TO ADD DIMENSIONS	1/15/71
5	REVISED TO ADD DIMENSIONS	1/15/71
6	REVISED TO ADD DIMENSIONS	1/15/71
7	REVISED TO ADD DIMENSIONS	1/15/71
8	REVISED TO ADD DIMENSIONS	1/15/71

SEE OFFSHEET PARTS LIST
N-PL- BAIL-A-250 E3630

QUANTITY & VARIATION		DESCRIPTION		ITEM NO.	
QTY	VAR	DESCRIPTION	ITEM NO.	QTY	VAR
1		CHD	1	1	
1		ENG	1	1	
1		PROJ ENG	1	1	
1		PROJ	1	1	
1		TEST - CHECK ASY	1	1	
MATERIAL		TITLE		REV	
N-PL- BAIL-A-250		BAIL-A UNIT ASSEMBLY		B	
SCALE		EQUIVALENT		REV	
SHEET		C		REV	

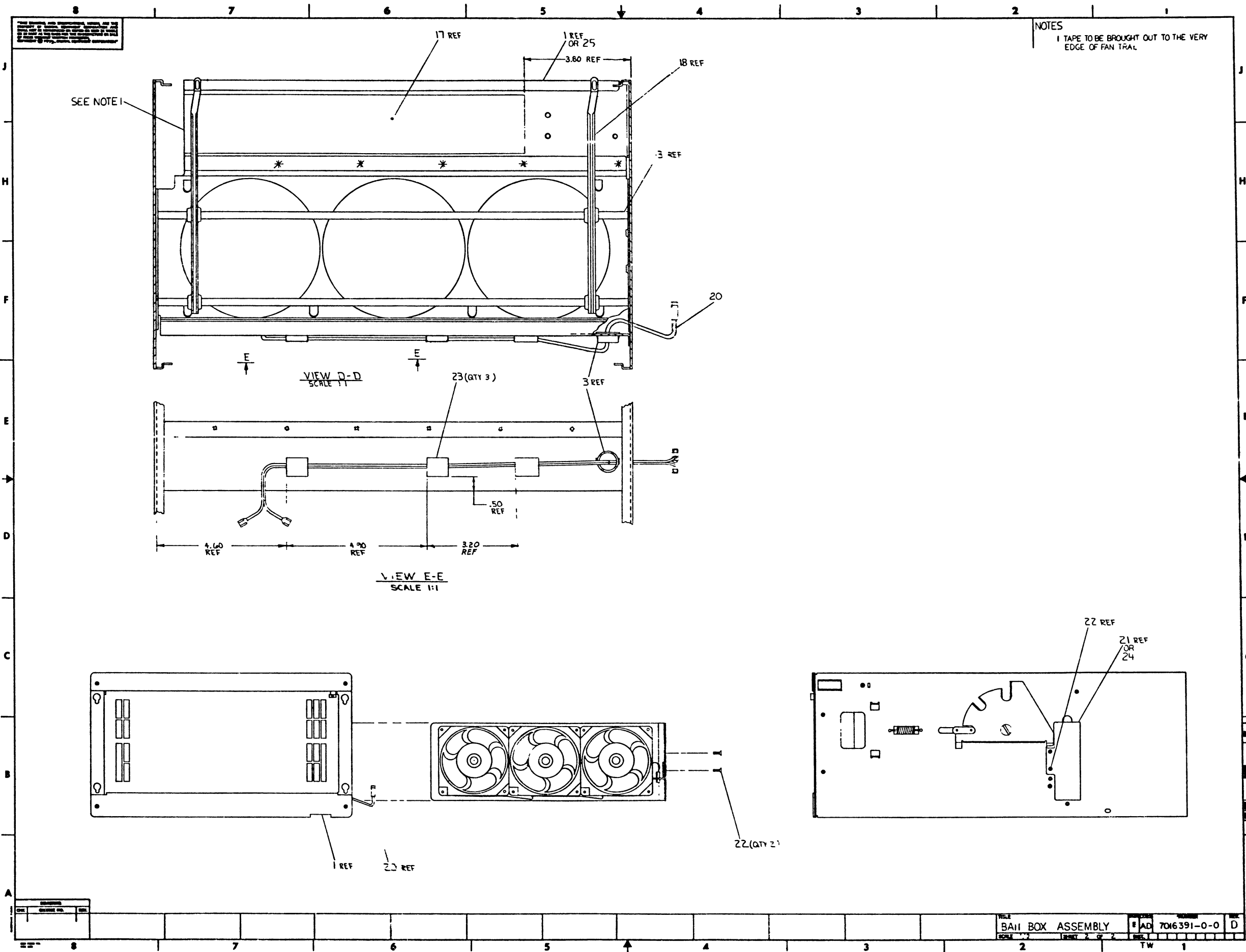
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY		PER	VARIATION				AS	AT
					AA	AB	AE	AF	AL	AM			
1	1	E-AD-7016391-0-0	7016391-00	BA11 BOX ASSY	1	1	-	-	-	-	-	-	-
2	2	E-UA-H7140-0-0	H7140-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-
3	3	E-UA-H7140-0-0	H7140-AB	H7140 W 240V LINE CORD,50/60HZ	-	1	-	-	-	-	-	-	-
4	4		9006690-00	WASHER,HELICAL SPLIT SST	12	12	-	-	-	-	12	12	
5	5		9006418-01	SCREW,TAP PAN PHIL THD RL 8-	6	6	-	-	-	-	6	6	
6	6	A-SP-3700472-0-0	3700472-00	INSTR PKG COMPUTER(BA11-A)	REF	REF	-	-	-	-	-	-	-
7	7	D-AD-7016888-0-0	7016888-00	POWER DIST. JUMPER ASSY	1	1	-	-	-	-	1	1	
8	8		9006039-01	SCREW,MACH PAN PHIL 8-	6	6	-	-	-	-	6	6	
9	9		9006661-00	WASHER,FLAT SST	6	6	-	-	-	-	6	6	
10	10	E-AD-7016391-0-0	7016391-03	BA11-A BOX ASSY	-	-	-	-	-	-	1	1	
11	11	E-UA-H7140-0-0	H7140-DA	H7140 EXCEPT +12V/-15V BATT,120V	-	-	-	-	-	-	1	-	
12	12	E-UA-H7140-0-0	H7140-DB	H7140 EXCEPT +12V/-15V BATT,240V	-	-	-	-	-	-	-	1	
13	13	D-IA-7426283-0-0	7426283-01	COVER,CABLE COMPARTMENT	-	-	-	-	-	-	1	1	
14	14		9009701-00	SCREW,SEMS PAN PHIL 6-	-	-	-	-	-	-	4	4	
15	15	B-DD-BA11-AE	OBA11-AE	10.5" EXPANSION BOX W H7140-BA P	-	-	REF	REF	REF	REF	-	-	
16	16	E-UA-H7140-0-0	H7140-AA	H7140 W 120V LINE CORD,50/60HZ	1	-	-	-	-	-	-	-	

REVISION HISTORY			BASIC PART NO: OBA11		DRN: S. CHARTIER		DATE: 16-APR-82		D I G I T A L							
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: T. MCCULLOUGH		DATE: 16-APR-82		TITLE PARTS LIST							
RM	INITIAL BA11-A-ML002	A B	SECTION. VARIATION INDEX: [A] AA,AB,AE,AF,AL,AM, AS,AT		DES.ENG.: R. BOUDREAU		DATE: 16-APR-82		BA11-A UNIT ASSY							
			[B]		RESP.ENG.: R. BOUDREAU		DATE: 16-APR-82		DOCUMENT NUMBER							
			[C]		MFG.ENG.: J. GALLANT		DATE: 16-APR-82		SIZE: K		CODE: PL		NUMBER: BA11-A-DBP		REV: B	
			[D]		ASSEMBLY NUMBER: E-UA-BA11-A-0		TOP DOCUMENT NUMBER:		FILE NAME: Z36308.PLS		EDIT # 6					
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CHK HH 13																



1	BA11-A BOX, w/FANS
2	BA11-A BOX, w/O FANS
3	BA11-A BOX, w/QUIET FANS
4	BA11-A BOX, w/FANS (11730)
5	BA11-A BOX, w/FANS (11730)
6	BA11-A BOX, w/FANS (11730)
7	BA11-A BOX, w/FANS (11730)
8	BA11-A BOX, w/FANS (11730)
9	BA11-A BOX, w/FANS (11730)
10	BA11-A BOX, w/FANS (11730)
11	BA11-A BOX, w/FANS (11730)
12	BA11-A BOX, w/FANS (11730)
13	BA11-A BOX, w/FANS (11730)
14	BA11-A BOX, w/FANS (11730)
15	BA11-A BOX, w/FANS (11730)
16	BA11-A BOX, w/FANS (11730)
17	BA11-A BOX, w/FANS (11730)
18	BA11-A BOX, w/FANS (11730)
19	BA11-A BOX, w/FANS (11730)
20	BA11-A BOX, w/FANS (11730)
21	BA11-A BOX, w/FANS (11730)
22	BA11-A BOX, w/FANS (11730)
23	BA11-A BOX, w/FANS (11730)
24	BA11-A BOX, w/FANS (11730)
25	BA11-A BOX, w/FANS (11730)
26	BA11-A BOX, w/FANS (11730)
27	BA11-A BOX, w/FANS (11730)
28	BA11-A BOX, w/FANS (11730)
29	BA11-A BOX, w/FANS (11730)
30	BA11-A BOX, w/FANS (11730)
31	BA11-A BOX, w/FANS (11730)
32	BA11-A BOX, w/FANS (11730)
33	BA11-A BOX, w/FANS (11730)
34	BA11-A BOX, w/FANS (11730)
35	BA11-A BOX, w/FANS (11730)
36	BA11-A BOX, w/FANS (11730)
37	BA11-A BOX, w/FANS (11730)
38	BA11-A BOX, w/FANS (11730)
39	BA11-A BOX, w/FANS (11730)
40	BA11-A BOX, w/FANS (11730)
41	BA11-A BOX, w/FANS (11730)
42	BA11-A BOX, w/FANS (11730)
43	BA11-A BOX, w/FANS (11730)
44	BA11-A BOX, w/FANS (11730)
45	BA11-A BOX, w/FANS (11730)
46	BA11-A BOX, w/FANS (11730)
47	BA11-A BOX, w/FANS (11730)
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49	BA11-A BOX, w/FANS (11730)
50	BA11-A BOX, w/FANS (11730)

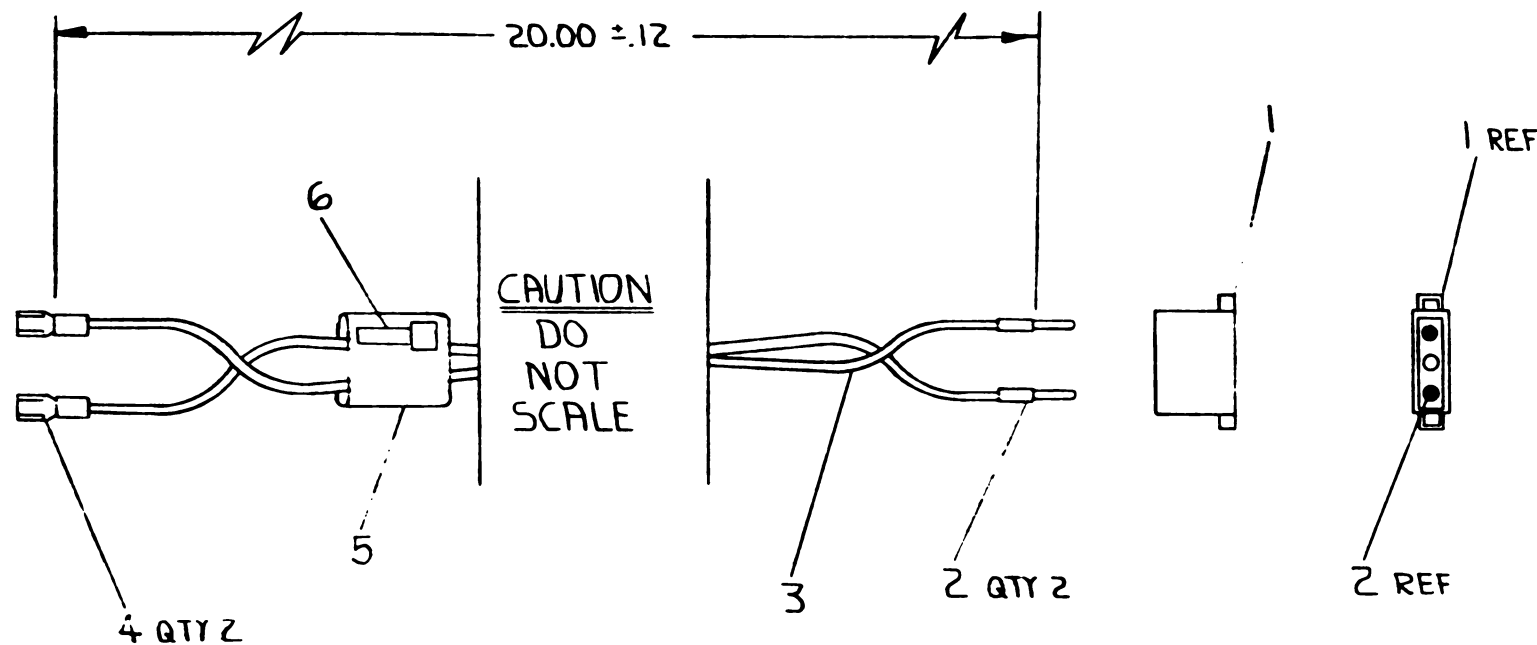
QUANTITY & VARIATION	DESCRIPTION	DATE/PART NO.	ITEM NO.
1	BA11-A BOX, w/FANS	7016391-03	1
2	BA11-A BOX, w/O FANS	7016391-01	2
3	BA11-A BOX, w/QUIET FANS	7016391-02	3
4	BA11-A BOX, w/FANS (11730)	7016391-05	4
5	BA11-A BOX, w/FANS (11730)	7016391-05	5
6	BA11-A BOX, w/FANS (11730)	7016391-05	6
7	BA11-A BOX, w/FANS (11730)	7016391-05	7
8	BA11-A BOX, w/FANS (11730)	7016391-05	8
9	BA11-A BOX, w/FANS (11730)	7016391-05	9
10	BA11-A BOX, w/FANS (11730)	7016391-05	10
11	BA11-A BOX, w/FANS (11730)	7016391-05	11
12	BA11-A BOX, w/FANS (11730)	7016391-05	12
13	BA11-A BOX, w/FANS (11730)	7016391-05	13
14	BA11-A BOX, w/FANS (11730)	7016391-05	14
15	BA11-A BOX, w/FANS (11730)	7016391-05	15
16	BA11-A BOX, w/FANS (11730)	7016391-05	16
17	BA11-A BOX, w/FANS (11730)	7016391-05	17
18	BA11-A BOX, w/FANS (11730)	7016391-05	18
19	BA11-A BOX, w/FANS (11730)	7016391-05	19
20	BA11-A BOX, w/FANS (11730)	7016391-05	20
21	BA11-A BOX, w/FANS (11730)	7016391-05	21
22	BA11-A BOX, w/FANS (11730)	7016391-05	22
23	BA11-A BOX, w/FANS (11730)	7016391-05	23
24	BA11-A BOX, w/FANS (11730)	7016391-05	24
25	BA11-A BOX, w/FANS (11730)	7016391-05	25
26	BA11-A BOX, w/FANS (11730)	7016391-05	26
27	BA11-A BOX, w/FANS (11730)	7016391-05	27
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29	BA11-A BOX, w/FANS (11730)	7016391-05	29
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31	BA11-A BOX, w/FANS (11730)	7016391-05	31
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33	BA11-A BOX, w/FANS (11730)	7016391-05	33
34	BA11-A BOX, w/FANS (11730)	7016391-05	34
35	BA11-A BOX, w/FANS (11730)	7016391-05	35
36	BA11-A BOX, w/FANS (11730)	7016391-05	36
37	BA11-A BOX, w/FANS (11730)	7016391-05	37
38	BA11-A BOX, w/FANS (11730)	7016391-05	38
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41	BA11-A BOX, w/FANS (11730)	7016391-05	41
42	BA11-A BOX, w/FANS (11730)	7016391-05	42
43	BA11-A BOX, w/FANS (11730)	7016391-05	43
44	BA11-A BOX, w/FANS (11730)	7016391-05	44
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47	BA11-A BOX, w/FANS (11730)	7016391-05	47
48	BA11-A BOX, w/FANS (11730)	7016391-05	48
49	BA11-A BOX, w/FANS (11730)	7016391-05	49
50	BA11-A BOX, w/FANS (11730)	7016391-05	50



LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
					00	01	02	03
1	1	E-AD-7016493-0-0	7016493-00	BA11 BOX FRAME ASSY	1	1	-	-
2	2		9010107-00	GUIDE,CARD POLMIDE NATURAL,	1	2	2	2
3	3		9007783-00	BUSHING,SNAP-IN NYLON .625 MTG	1	1	1	1
4	4		1217095-00	RETRACTOR,SLIDE PAWL	2	2	2	2
5	5		1216190-00	SPRING,EXTENSION .50 ODX1.858	2	2	2	2
6	6	B-MD-7421611-0-0	7421611-00	SLIDE STRING	2	2	2	2
7	7	B-MD-7421444-0-0	7421444-00	PLATE, SLIDE NUT	2	2	2	2
8	8		1216785-00	SCREW,SEMS TRUSS PHIL 10-	4	4	4	4
9	9		9007035-00	GROMMET,CATERPILLAR PCLYAMIDE	1	1	1	1
10	10	D-MD-7421613-0-0	7421613-00	SLIDE INDEX PLATES	-	-	1	-
11	11	D-MD-7421613-0-0	7421613-01	SLIDE INCEX PLATE	-	-	1	-
12	12		1216197-00	SCREW,PIVOT	-	-	2	-
13	13	B-MD-7421612-0-0	7421612-00	GUIDE MTG BAR	2	2	2	2
14	14		1215848-00	GUIDE,CARD ,POLYCAR,BLACK	15	15	15	15
15	15		1215848-01	GUIDE,CARD ,POLYCAR,NATURAL	14	14	14	14
16	16		9010118-00	SCREW, FLAT PHIL 8-	4	4	4	4
17	17		9009087-00	FOAM, TAPE, SINGLE SIDED 1/8 THK	1	1	1	1
18	18		1212405-00	GUIDE,CARD ,NYLON ,NATURAL	15	15	15	15
19	19		1212405-10	GUIDE,CARD ,NYLON ,BLACK	14	14	14	14
20	20	C-IA-7016901-0-0	7016901-00	FAN,POWER HARNESS	1	-	1	1
21	21	D-AD-7016472-0-0	7016472-00	FAN TRAY ASSY	1	1	-	1
22	22		9010120-00	SCREW, FLAT PHIL 6-	2	2	2	2
23	23		9009771-03	CLAMP,CABLE ADH MNT ACCOM 3	3	3	3	3
24	24	D-AD-7016472-0-0	7016472-01	FAN TRAY ASSY	-	-	1	-
25	25	E-IA-7016493-0-0	7016493-01	BA11 BOX FRAME ASSY W/BRKT	-	-	1	1

REVISION HISTORY			BASIC PART NO: 7016391			DRN: S. CHARTIER		DATE: 16-APR-82		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: T. MCCULLOUGH	DATE: 16-APR-82	TITLE		PARTS LIST			
RM	INITIAL	B	SECTION VARIATION INDEX			BA11-A BOX ASSY					
CG	BA11-AE-TW001	C	[A] 00,01,02,03								
	BA11-A-ML003	D	[B]	DES.ENG.: R. BOUDREAU		DATE: 16-APR-82					
			[C]	RESP.ENG.: R. BOUDREAU		DATE: 16-APR-82		DOCUMENT NUMBER			
			[D]					SIZE	CODE	NUMBER	REV
			[E]	MFG.ENG.: J. GALLANT		DATE: 16-APR-82		K	PL	7016391-0-DBP	D
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
				E-AD-7016391 0-0				Z3626D.PLS		14	
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1	TIE, CABLE SSTI-M	9007031-00	6
1	CABLE, CABLE I.D.	9009532-00	5
2	TERM. QCK 1 POS INS 22-18A ROLL	9007970-00	4
WIR	WIRE, #18 AWG TWST PAIR	9107430-29	3
2	PIN, MATE'N LOC #18 AWG	1209378-00	2
1	CONN, MATE W LOC 3 PIN	1209351-03	1

				DESCRIPTION			DWG./PART NO.		ITEM NO.				
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES									
				ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES							
						OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 48.0	OVER 48.0 TO 96.0		
				SURFACE QUALITY IN MICRONS	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04		
PREFERRED ☐	±.012	±.016	±.025		±.04	±.06	±.1						

THIRD ANGLE PROJECTION	DRN. <i>J. H. 1/16/79</i>	6 AUG 79	FIRST USED ON	BRII-A	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>P. G.</i>	4/10/79	TITLE		
DO NOT SCALE DWG	ENG. <i>P. G.</i>	4/14/79	FAN POWER HARNESS		
MATERIAL	PROJ. ENG. <i>P. G.</i>	6-29-79	SIZE	CODE	NUMBER
FINISH	PROD. <i>P. G.</i>	27 JUN 79	C	IA	7016901-0-0
	NEXT HIGHER ASSY.		DIST.		REV. A

REVISIONS	CHANGE NO.	REV.
CHK	7016901-TW001	A
APD		52780
J NAGLE		

4

3

2

TW 1

CIA 7016901-0-0

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
1	1	D-AD-7016376-0-0	7016376-00	FAN TRAY + BRACKET ASSY	1	1
2	2		1216563-00	FAN,TUBE AXIAL 4.5" 110CFM 35V	3	-
3	3	D-IA-7016392-0-0	7016392-00	FAN-HARNESS ASSY	1	1
4	4		9009165-00	CLIP, FAN MOUNTING (12-05033 FAN	12	12
5	5		9006023-03	SCREW,MACH TRUSS PHIL 6-	12	12
6	6		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	4	4
7	7		1216563-01	FAN,TUBE AXIAL 4.5" 117CFM 35V	-	3

REVISION HISTORY			BASIC PART NO: 7016472			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: A.RUSZCZYK	DATE: 26-APR-83	TITLE PARTS LIST		
	INITIAL	C	SECTION. VARIATION INDEX	CHK'D: T.MCCULLOUGH	DATE: 26-APR-83	FAN TRAY ASSEMBLY		
			[A] 00,01					
			[B]	DES.ENG.: R.BOUDREAU	DATE: 26-APR-83			
			[C]			DOCUMENT NUMBER		
			[D]	RESP.ENG.: R.MORIN	DATE: 26-APR-83	SIZE	CODE	NUMBER
			[E]			K	PL	7016472-0-DBP
			[F]	MFG.ENG.: J.AVILES	DATE: 26-APR-83			REV C
				ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #
				D-AD-7016472-0-0	E-AD-7016391-0-0	Z5539C.PLS		5
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FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

D-UA-5413599-0-0	LOGIC INVERTER BOARD
D-CS-5413599-0-0	LOGIC INVERTER BOARD
B-PL-5413599-0-0	LOGIC INVERTER BOARD
D-UA-5413607-0-0	MEM REG. BOARD
D-CS-5413607-0-0	MEM REG. BOARD
B-PL-5413607-0-0	MEM REG. BOARD
D-UA-5413603-0-0	MEM INV. BOARD
D-CS-5413603-0-0	MEM INV. BOARD
B-PL-5413603-0-0	MEM INV. BOARD
D-AD-7016050-0-0	MEM VOLTAGE ASSY
D-AD-7016057-0-0	+5V INVERTER ASSY

H7140-AA
H7140-AB

Digital Equipment Corporation

REV.

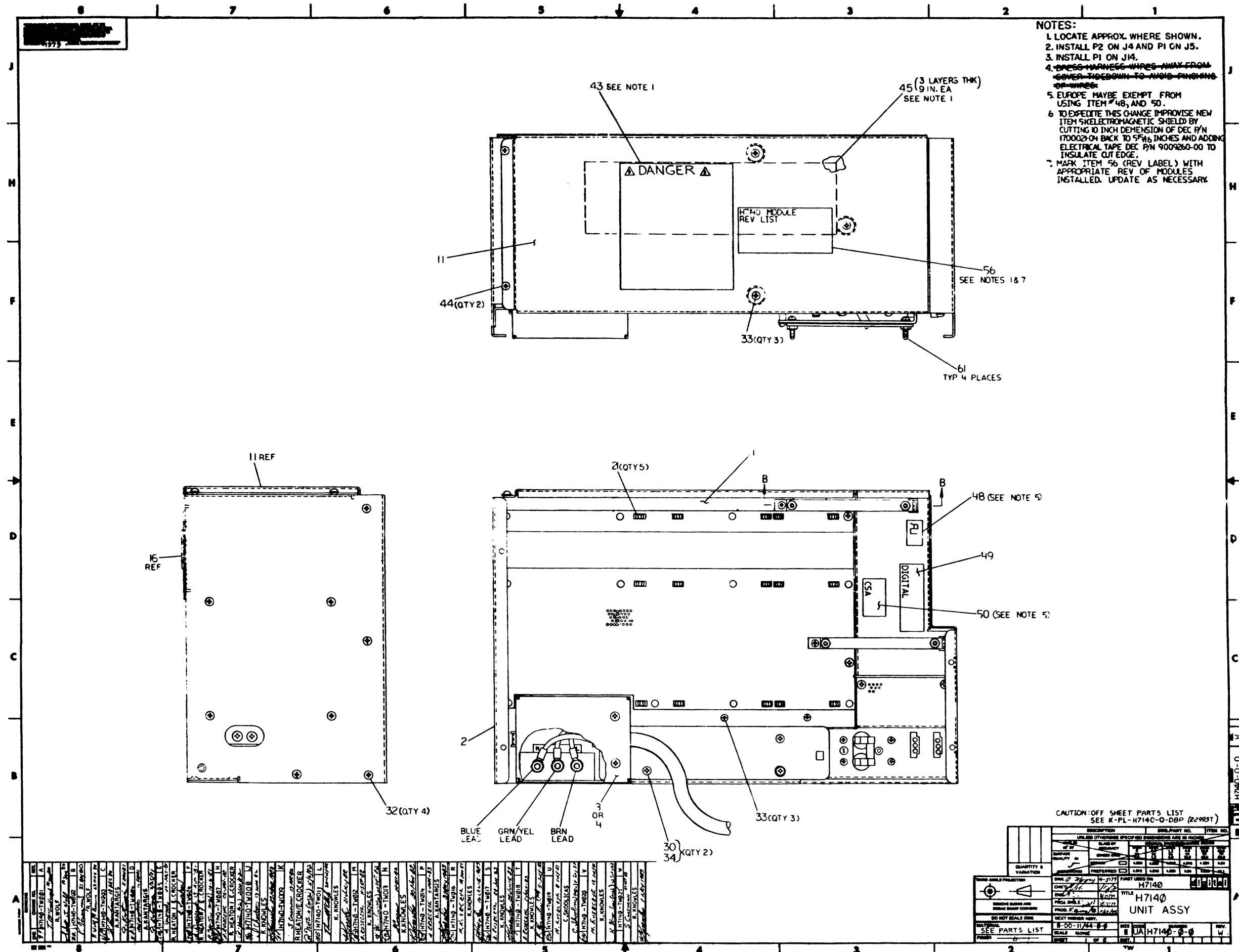
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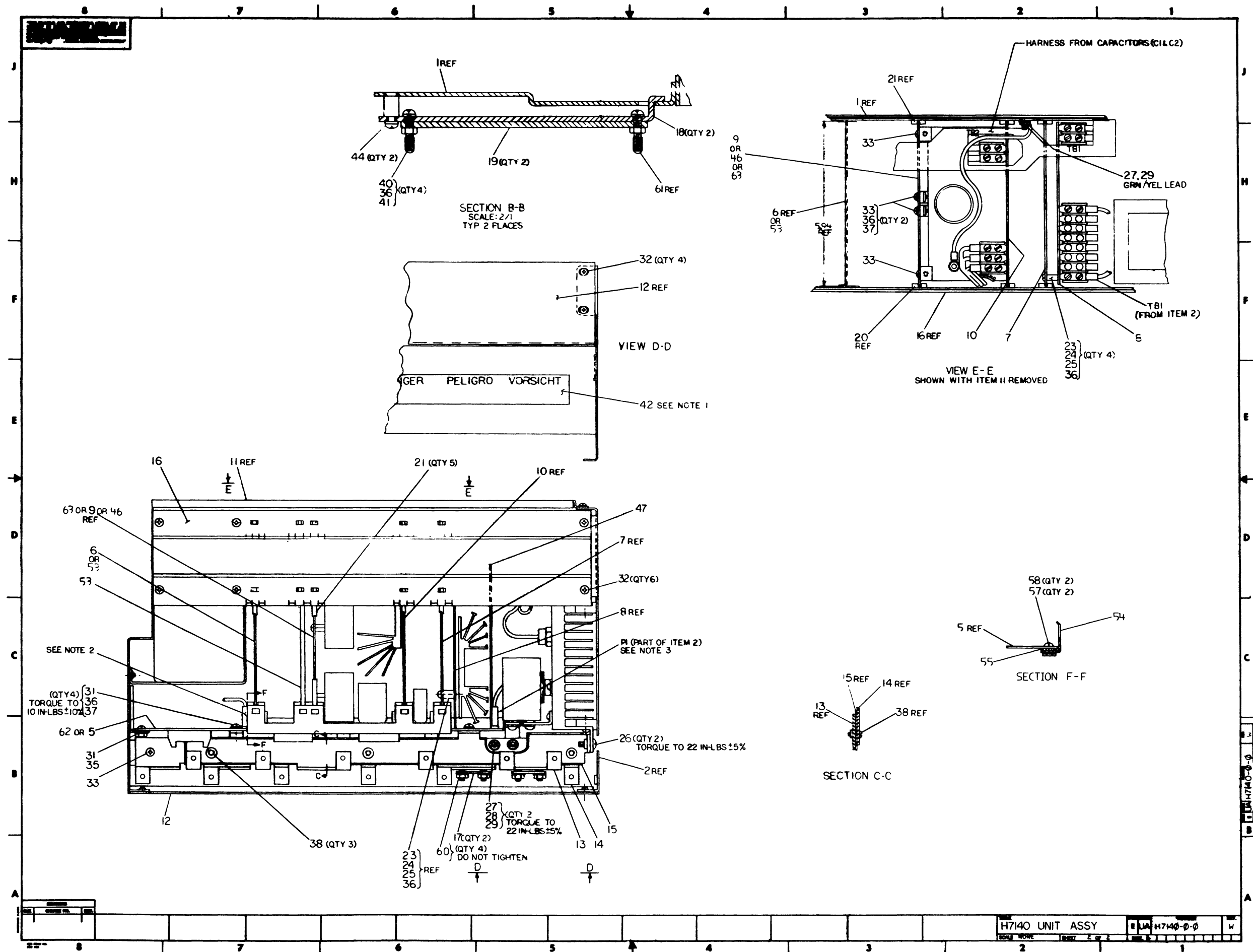
SIZE	CODE
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REVISIONS		USED ON OPTION/MODEL	DRN.	DATE	TITLE: UNIT ASSEMBLY										
REV	CHG. NO.		H7140	M. CARROLL	10/24/79										
				CHK'D	DATE										
				<i>[Signature]</i>	12-9-79										
				REQ. ENG.	DATE										
				<i>[Signature]</i>	12/3/79										
				FIELD SERV.	DATE										
				<i>W. Macy</i>	11/16/79										
			SHEET 1 OF 1												
DATE						SIZE B	CODE TC	NUMBER H7140-0-1				REV. *			
						DIST.									

DRB 124

TH





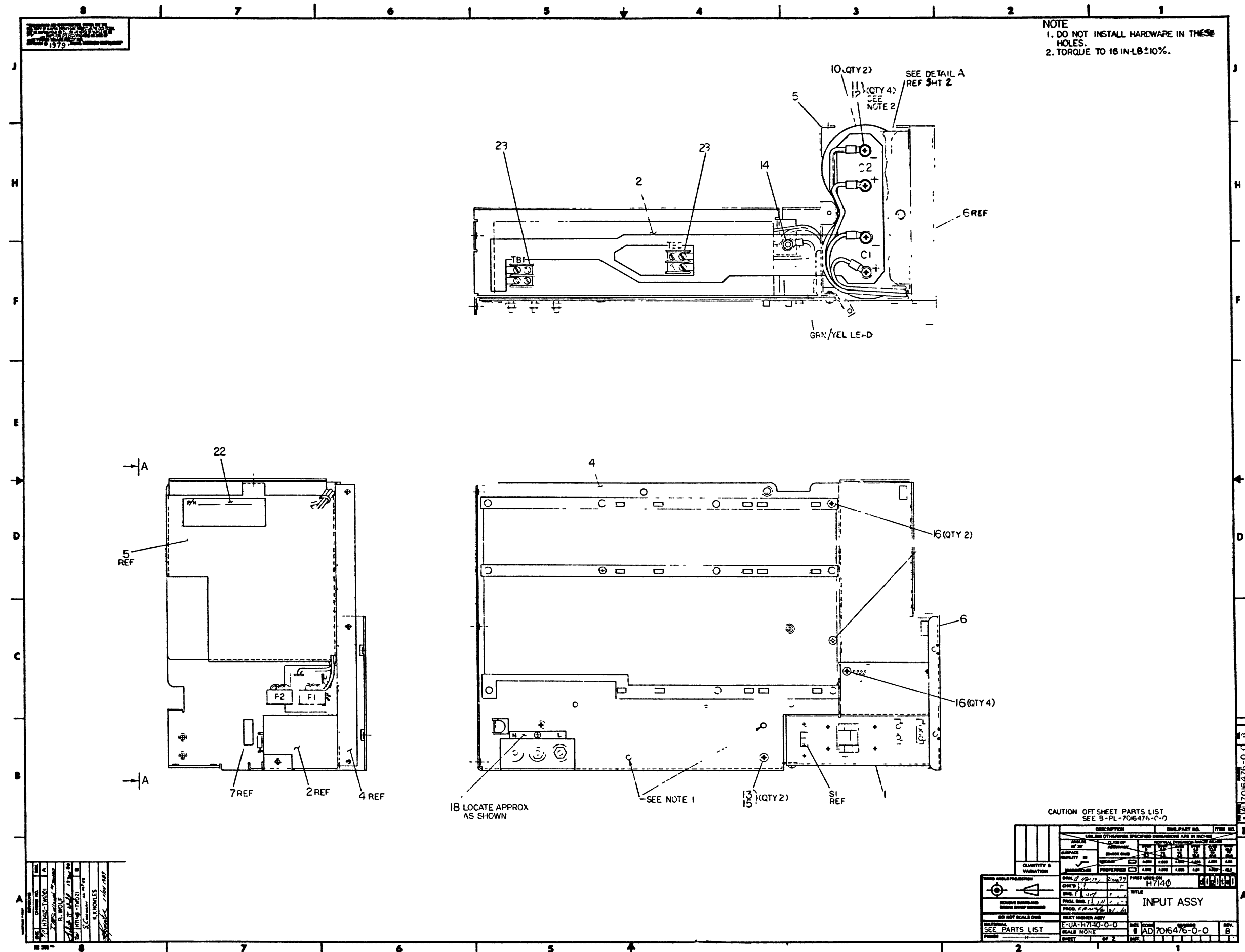
SHEET A1 OF A2

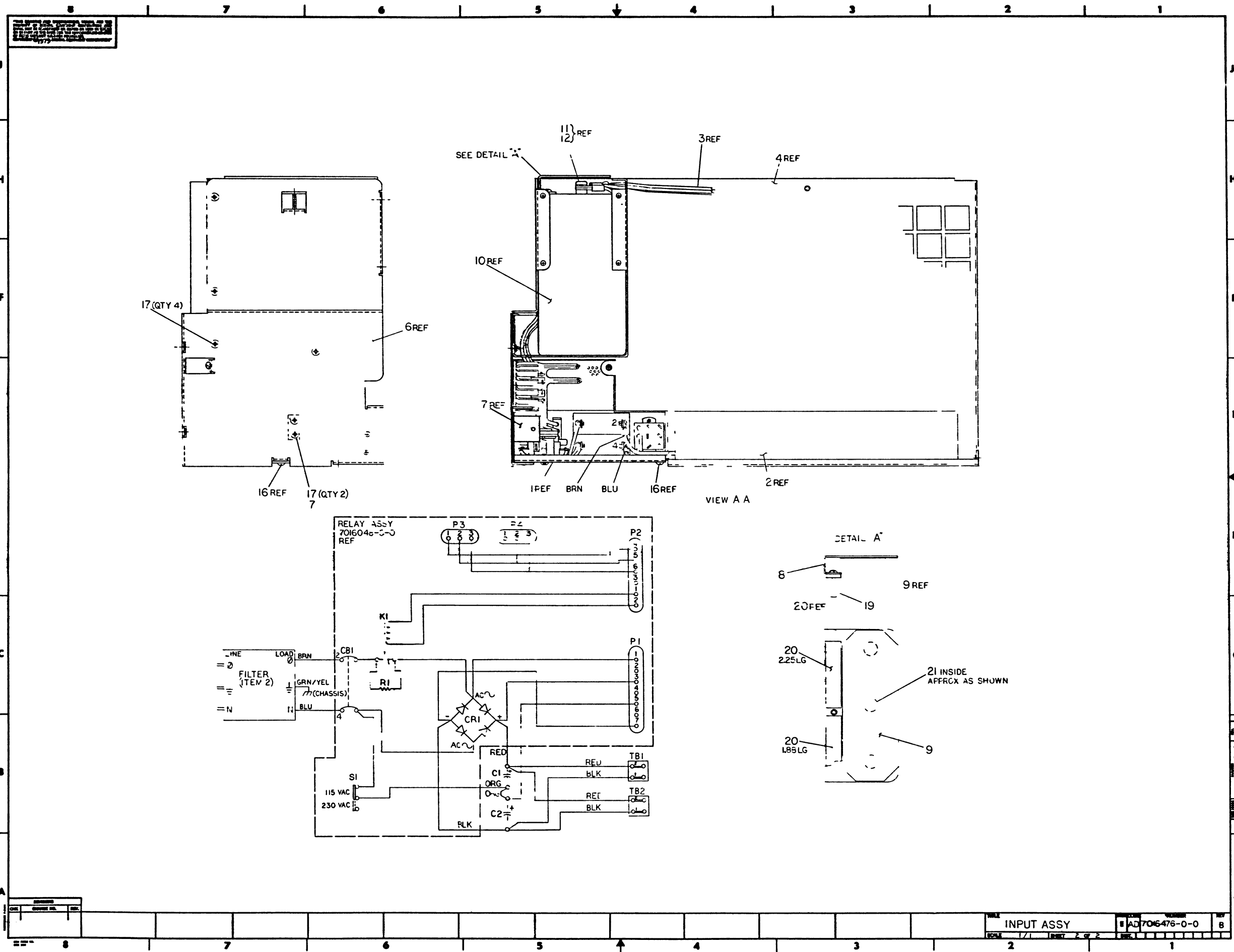
REVISION HISTORY			BASIC PART NO: H7140		DRN:	A. MOWRY	DATE:	15-AUG-79	D I G I T A L						
ENG	ECO NUMBER	REV	SECTION A OF A						TITLE		PARTS LIST				
	INITIAL	F	SECTION. VARIATION INDEX		CHK'D:	R. RILEY	DATE:	17-AUG-79	H7140 UNIT ASSEMBLY						
KK	TW008	J	[A] AA,AB,BA,BB,CA,CB,DA,DB												
RH	H7140-TW009	K													
KK	H7140-TW011	L	[B]		DES.ENG.:	R. J. WOLF	DATE:	17-AUG-79							
KK	H7140-TW012	M													
KK	H7140-TW013	N	[C]								DOCUMENT NUMBER				
AK	H7140-TW014	P	[D]		RESP.ENG.:	R. J. WOLF	DATE:	17-AUG-79	SIZE	CODE	NUMBER			REV	
KK	H7140-TW016	R													
KK	H7140-TW017	S													
PP	H7140-TW018	T	[E]		MFG.ENG.:	F. MUNIZ	DATE:	17-AUG-79	K	PL	H7140-0-DBP			V	
CS	H7140-TW019	U													
KK	H7140-TW020	V	[F]		ASSEMBLY NUMBER: E-UA-H7140-0-0		TOP DOCUMENT NUMBER:				FILE NAME: Z2993V.PLS			EDIT # 5	
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LINE ITEM DOCUMENT NUMBER PART NUMBER DESCRIPTION					QUANTITY PER VARIATION							
					AA	AB	BA	BB	CA	CB	DA	DB
31	31		9006022-01	SCREW,MACH PAN PHIL 6-	5	5	5	5	5	5	5	5
32	32		9009796-00	SCREW,TAP FLAT PHIL THD RL 6-	14	14	14	14	14	14	14	14
33	33		9009708-00	SCREW,TAP PAN PHIL THD RL 6-	11	11	11	11	11	11	11	11
34	34		9006690-00	WASHER,HELICAL SPLIT SST	2	2	2	2	2	2	2	2
35	35		9009243-00	NUT,HEX EXT TOOTH LCKWSHR 6-32	1	1	1	1	1	1	1	1
36	36		9007801-00	WASHER,HELICAL SPLIT SST	14	14	14	14	14	14	14	14
37	37		9006656-00	WASHER,FLAT STEEL	6	6	6	6	6	6	6	6
38	38		9008212-00	SCREW,NYLN PAN SLOT 6-	3	3	3	3	3	3	3	3
39	39	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
40	40		9009587-01	SCREW,TAP PAN PHIL THD RL 6-	4	4	4	4	4	4	4	4
41	41	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
42	42		3615087-02	LABEL,"DANGER-HIGH CURRENT"	1	1	1	1	1	1	1	1
43	43		3616930-00	LABEL,DANGER STORED HIGH VOLTAGE	1	1	1	1	1	1	1	1
44	44		9009701-00	SCREW,SEMS PAN PHIL 6-	4	4	4	4	4	4	4	4
45	45	(SEE NOTE 1)	9009087-00	FOAM, TAPE, SINGLE SIDED 1/8 THK	0	0	0	0	0	0	0	0
46	46	D-UA-5413607-0-0	5413607-YA	MEMORY INVERTER BD.	-	-	1	1	1	1	-	-
47	47	B-MD-7424586-0-0	7424586-00	INSULATOR, HEATSINK	1	1	1	1	1	1	1	1
48	48		3612063-00	LABEL, ,ADHESIVE I.D. FOR UL C	1	1	1	1	1	1	1	1
49	49		9009255-01	LABEL, POWER SUPPLY, 2-7/8" LG X	1	1	1	1	1	1	1	1
50	50		3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1	1	1	1
51	51		1700021-04	SHIELD,ELECTROMAG,5X10	1	1	1	1	1	1	1	1
52	52		9009260-00	TAPE,POLYEST ADH 1.0 WDX7.5M	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
53	53		2019637-B1	MODULE,AIR FLOW SENSOR (BURNED I	1	1	1	1	-	-	1	1
54	54		7425384-00	BRACKET,LOWER CARD GUIDE	1	1	1	1	1	1	1	1
55	55		7425386-00	INSULATOR,CARD GUIDE BRACKET	1	1	1	1	1	1	1	1
56	56		3617664-00	LABEL,H7140 MODULE REV	1	1	1	1	1	1	1	1
57	57		9006010-01	SCREW,MACH PAN PHIL 4-	2	2	2	2	2	2	2	2
58	58		9006557-00	NUT,HEX EXT TOOTH LCKWSHR 4-40	2	2	2	2	2	2	2	2
59	59		9010164-00	WASHER,FLAT SS	2	2	2	2	2	2	2	2
60	60		9006565-00	NUT,HEX EXT TOOTH LCKWSHR 10-32	4	4	4	4	4	4	4	4
61	61		9009731-00	CAP,WHT. VINYL .112 ID	4	4	4	4	4	4	4	4
62	62		5413605-YA	BIAS & INTERFACE BD	-	-	-	-	1	1	-	-
63	63		5413615-YA	H7140 MOTHER BOARD	-	-	-	-	-	-	1	1
64	64		5413607-YB	MEMORY REGULATOR BOARD	-	-	-	-	-	-	1	1

65 NOTE: 1. ITEM 45, ALL VARIATIONS ARE 2.25.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							H7140 UNIT ASSEMBLY		K	PL	H7140-0-DBP	V



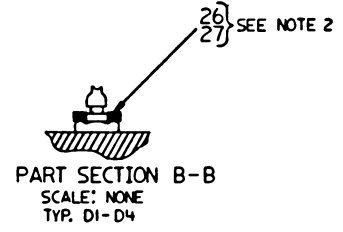
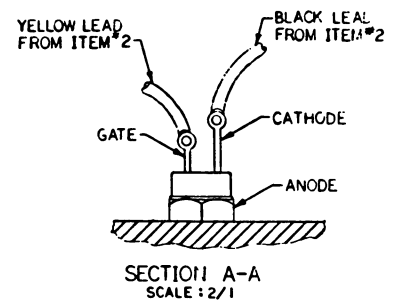


DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:					
MADE BY DATE		A. MOWRY 04-09-79		CHECKED DATE		SECTION															
ENG DATE		K. G. J. W. J. 8-10-79		PROD DATE		F. MUNIZ 8/10/79		ISSUED SECTION													
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION													REF DESIGNATION					
1	E-AD-7016048-0-0	7016048-00	RELAY ASSY	1																	
2	C-IA-7016898-0-0	7016898-00	FILTER, RFI, ASSY	1																	
3		1700245-00	CIRCUIT FLEX. FLAT POWER	1																	
4	D-IA-7016926-0-0	7016926-00	CHASSIS ASSY, REAR	1																	
5	D-MD-7421433-0-0	7421433-00	BRACKET, CAPACITOR	1																	
6	D-MD-7421438-0-0	7421438-00	PANEL, SIDE	1																	
7	B-MD-7423546-0-0	7423546-00	BLOCK, MTG	1																	
8	B-MD-7422382-0-0	7422382-00	CLAMP, CAPACITOR	1																	
9	B-MD-7422401-0-0	7422401-00	INSULATOR, CAPACITOR	1																	
10		1014336-00	CAPACITOR, 4500 uf/200 VDC, E&	2																	
11		9006072-01	SCR, PHL PAN HD SS #10-32 x .438 LG	4																	
12		9007906-00	WASHER, SPLIT, LOCK #10	4																	
13		9006037-01	SCR, PHL PAN HD SS #8-32 x .375 LG	2																	
14		9006565-00	NUT, KEP CS/CAD #10-32 x 3/8 AF	1																	
15		9006690-00	WASHER, SPLIT, LOCK #8	2																	
16		9009708-00	SCREW, PHL PAN HD SELF TAP #6-32 x .312	6																	
17		9009796-00	SCR, PHL FLAT HD SELF TAP #6-32 x .250	6																	
18		3617016-00	LABEL, N-GROUND-L	1																	
19		9010133-00	SCREW, PHILL PAN HD #8-32 x .88 LG	1																	
20		9009342-00	FOAM TAPE ADH. BACK .50 x .125	.35	FT																
21		9009157-00	ADHESIVE, PERMABOND #101	A/R																	
22		9009255-00	LABEL, POWER SUPPLY	1																	
23		1216626-00	BLOCK, TERM, HIGH BARRIER	2																	

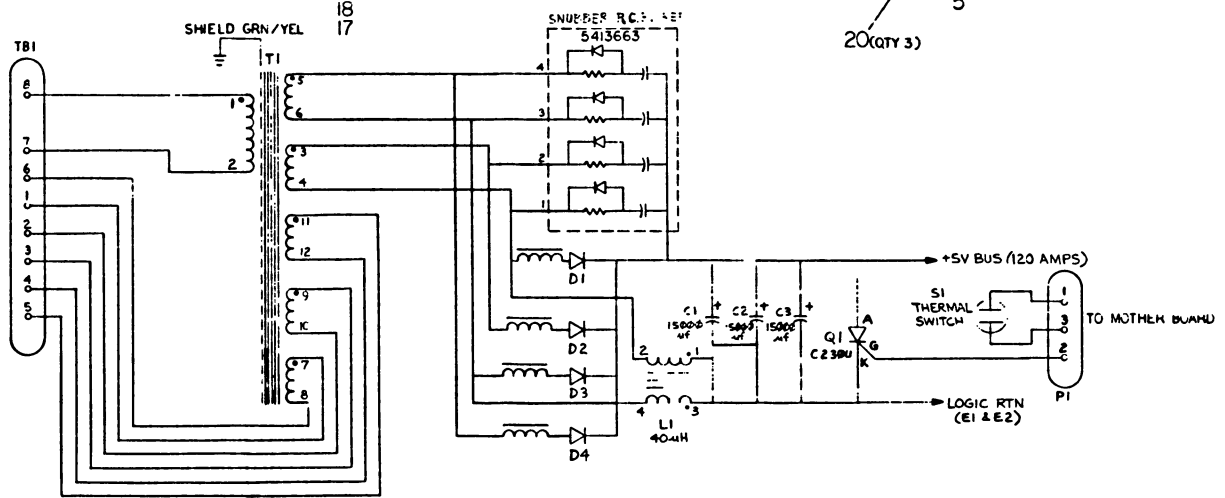
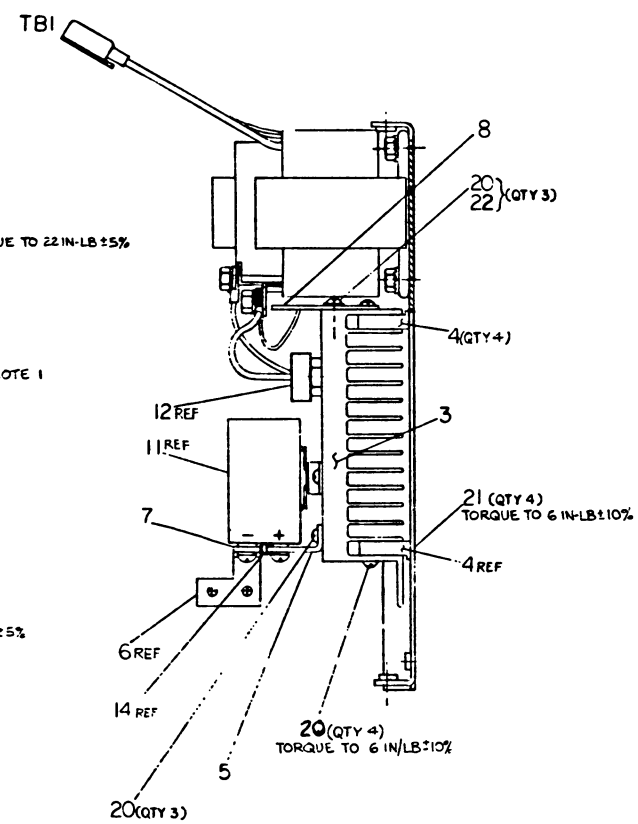
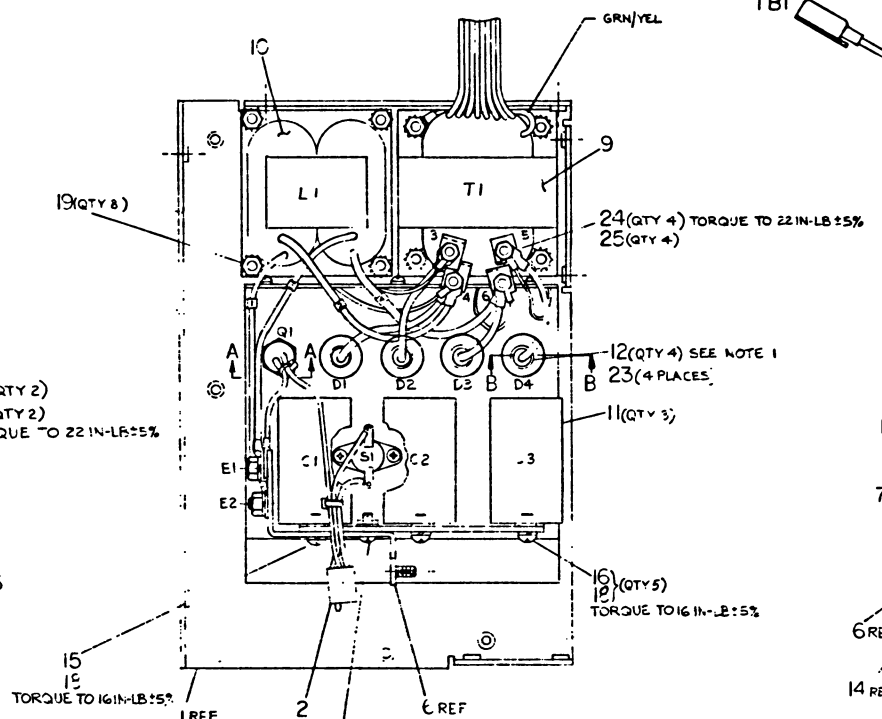
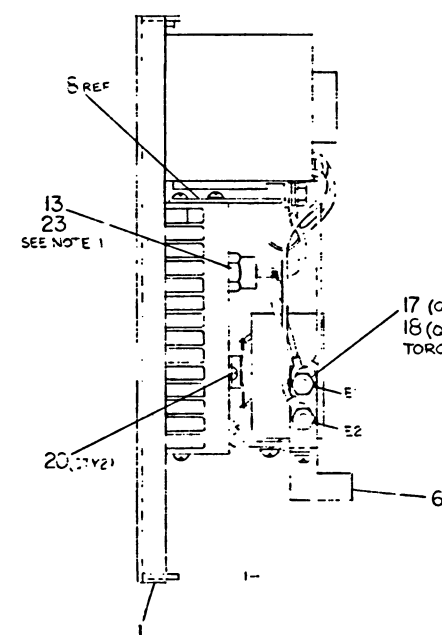
E.C.O. NO.	H7140- TW001	H7140- TW021	"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1979 DIGITAL EQUIPMENT CORPORATION"		TITLE INPUT ASSY	ASSY NO. E-AD-7016476-00 SHEET 1 OF 1	SIZE B	CODE PL	NUMBER 7016476-0-C	REV. B
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1978

INTERCONNECTION TABLE		REMARKS
FROM	TO	
D1		
L1-2	T1-4	
WIRE #1 ITEM 8		
D2	T1-3	
WIRE #2 ITEM 8		
D3		
L1-4	T1-6	
WIRE #3 ITEM 8		
L1-1		
WIRE #4 ITEM 8		
T1-GRN/YEL	MTD STUD	
YEL LEAD ITEM 2	Q1-GATE	
BLK LEAD ITEM 2		
Q1-CATHODE	E1	
L1-3		
L1-1	E2	



NOTES:
1. ITEMS 12, 13 (D1-D4, Q1) MUST SEAT FLUSH ON HEATSINK (ITEM 3). USE ITEM 23 (JOINTCompound) UNDER ITEMS 12 & 13, TORQUE TO 22 IN-LBS MIN. UNTIL FULLY SEATED.
2. APPLY ITEM 26, 4 PLACES D1 THRU D4 USING ITEM 27.



CAUTION: OFF SHEET PARTS LIST
SEE K-PL-7016054-0-D8P (2/4/94B)

QUANTITY & VARIATION	DESCRIPTION	REVISION	DATE
1	OUTPUT PANEL ASSY	1	11-7-79
1	OUTPUT PANEL ASSY	2	11-7-79
1	OUTPUT PANEL ASSY	3	11-7-79
1	OUTPUT PANEL ASSY	4	11-7-79
1	OUTPUT PANEL ASSY	5	11-7-79
1	OUTPUT PANEL ASSY	6	11-7-79
1	OUTPUT PANEL ASSY	7	11-7-79
1	OUTPUT PANEL ASSY	8	11-7-79
1	OUTPUT PANEL ASSY	9	11-7-79
1	OUTPUT PANEL ASSY	10	11-7-79

1978

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-7421434-0-0	7421434-00	PANEL, SIDE	1	
2	2	D-IA-7016511-0-0	7016511-00	OVER TEMP CABLE ASSY	1	
3	3		1216648-00	HEAT SINKS, 05.62X05.3	1	
4	4		1216965-00	BLOCK, MTG INSULATED	4	
5	5	B-MD-7422038-0-0	7422038-00	CAP,BRKT POS	1	
6	6	B-MD-7422037-0-0	7422037-00	RETURN BUS BRKT	1	
7	7	B-MD-7422036-0-0	7422036-00	CAP,BRKT NEG	1	
8	8	D-UA-5413663-C-0	5413663-00	SNUBBER BOARD	1	
9	9	C-IA-7016056-0-0	7016056-00	TRANSFORMER ASSY	1	T1
10	10	C-IA-7016055-0-0	7016055-00	CHOKE ASSY	1	L1
11	11		1014338-00	15,000 MFD 7.5V 20% AL EL	3	C1,C2,C3
12	12		1117833-00	USD 545F PIV=45V I=75A D05	4	D1,D2,D3,D4
13	13		1109978-00	C 230U SCR0 25V I=25A S131	1	Q1
14	14	(SEE NOTE 1)	9007036-00	GROMMET,CATERPILLAR POLYAMIDE	0	
15	15		9006071-01	SCREW,MACH PAN PHIL 10-	2	
16	16		9006070-01	SCREW,MACH PAN PHIL 10-	5	
17	17		9009005-00	NUT,HEX 10-32X .246AF SS/N	3	
18	18		9007906-00	WASHER,HELICAL SPLIT STEEL	9	
19	19		9006563-00	NUT,HEX EXT TOOTH LCKWSHR 8-32	8	
20	20		9009708-00	SCREW,TAP PAN PHIL THD RL 6-	12	
21	21		9010369-01	SCREW,TAP FLAT PHIL THD RL 6-	4	
22	22		9009882-00	WASHER,LOCK INTERNAL SST	3	
23	23		9008268-00	COMPOUND, THERMAL JOINT	A/R	
24	24		9006561-00	NUT,HEX 8-32X .307AF SS/N	4	
25	25		9006690-00	WASHER,HELICAL SPLIT SST	4	
26	26		1620201-01	CORE,POWDER IRON .9420DX.560IDX.	4	
27	27		4901462-00	ADHESIVE/SEALANT,SILICONE RUBBER	A/R	

REVISION HISTORY			BASIC PART NO: 7016054		DRN: A.RUSZCZYK		DATE: 14-JUL-82		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: T.MCCULLOUGH		DATE: 14-JUL-82		TITLE PARTS LIST			
---	INITIAL	A	SECTION VARIATION INDEX		DES.ENG: R.WOLF		DATE: 14-JUL-82		OUTPUT PANEL ASSEMBLY			
KK	7016054-TW002	B	[A] 00		RESP.ENG.: K.KNOWLES		DATE: 14-JUL-82		DOCUMENT NUMBER			
			[B]		MFG.ENG.: C.ROLDAN		DATE: 14-JUL-82		SIZE	CODE	NUMBER	REV
			[C]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K	PL	7016054-0-DBP	B
			[D]		E-AD-7016054-0-0		E-UA-H7140-0-0				FILE NAME:	EDIT #
			[E]								Z4494B.PLS	5
			[F]		"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1982. DIGITAL EQUIPMENT CORPORATION "							
			[G]									
			[H]									
			[I]									
			[J]									
			[K]									
			[L]									
			[M]									
			[N]									

AUTOMATED BY PRTLST.3P(44)

S01

PARTS LIST

SHEET A2 OF A2

LINE ITEMDOCUMENT NUMBERPART NUMBERDESCRIPTION

QTY PER VARIATION00REFERENCE DESIGNATOR

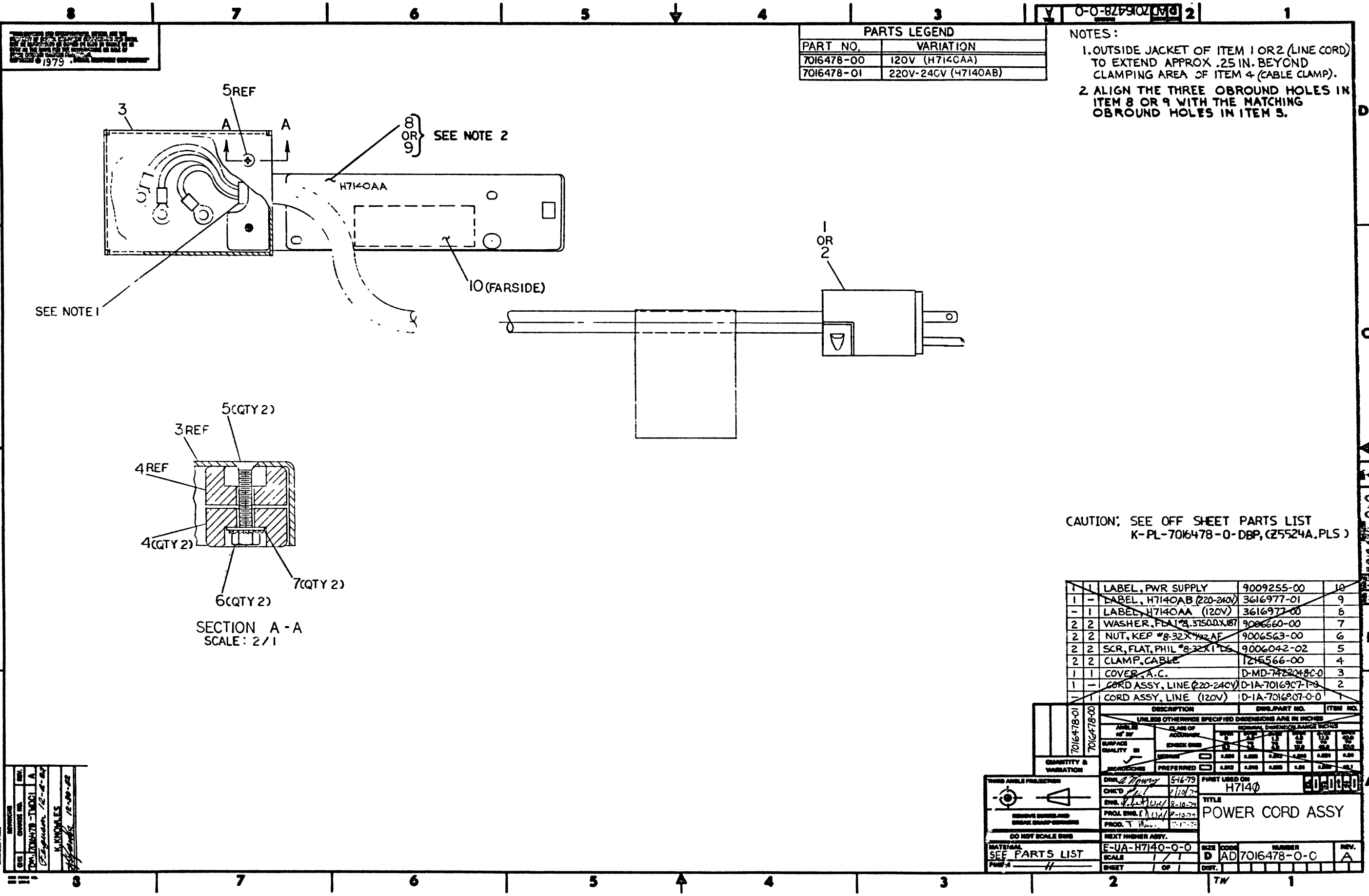
28 NOTE: 1. QUANTITY FOR ITEM NUMBER 14 IS .33 FT.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							OUTPUT PANEL ASSEMBLY		K	PL	7016054-0-DBP	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
				00	
1	1	D-IA-7016049-0-0	7016049-00	AC HARNESS ASSY	1
2	2	D-MD-7422040-0-0	7422040-00	INPUT BRKT	1
3	3		1216688-00	HEAT SINK, 1.810X01.8	1
4	4	D-AD-7018800-0-0	7018800-00	RELAY SUB ASSY. (H7140)	1
5	5		1212124-01	CKT BKR 20.0 A 240V 2P SERIES TR	1
6	6	C-IA-7016923-0-0	7016923-00	SWITCH ASSY	1
7	7		1116216-00	FWR6600V I=30A	1
8	8	BLANK		*** THIS ITEM IS NOT USED ***	-
9	9	BLANK		*** THIS ITEM IS NOT USED ***	-
10	10		9000039-06	SCREW,MACH FLAT PHIL 4-	2
11	11		9006020-01	SCREW,MACH PAN PHIL 6-	6
12	12	BLANK		*** THIS ITEM IS NOT USED ***	-
13	13		9009243-00	NUT,HEX EXT TOOTH LCKWSHR 6-32	1
14	14		9007801-00	WASHER,HELICAL SPLIT SST	6
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-
16	16	BLANK		*** THIS ITEM IS NOT USED ***	-
17	17	BLANK		*** THIS ITEM IS NOT USED ***	-
18	18		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	3
19	19		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1
20	20		3615680-00	LABEL,ADHESIVE BACK,SWITCH POSIT	1

REVISION HISTORY			BASIC PART NO: 7016048		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: A.RUSZCZYK	DATE: 22-SEP-82
INITIAL			A	CHK'D: T.MCCULLOUGH	DATE: 22-SEP-82
			SECTION. VARIATION INDEX	DES.ENG.: R.WOLF	DATE: 22-SEP-82
			[A] 00	RESP.ENG.: K.KNOWLES	DATE: 22-SEP-82
			[B]	MFG.ENG.: J.AVILES	DATE: 22-SEP-82
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:
			[D]	B-PL-7016048-0-0	E-AD-7016048-0-0
			[E]		
			[F]		
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TITLE	PARTS LIST		
RELAY ASSY			
DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
K	PL	7016048-0-DBP	A
FILE NAME:		EDJT #	
Z5521A PLS		2	



PARTS LEGEND	
PART NO.	VARIATION
7016478-00	120V (H714CAA)
7016478-01	220V-240V (H714OAB)

- NOTES:
1. OUTSIDE JACKET OF ITEM 1 OR 2 (LINE CORD) TO EXTEND APPROX .25 IN. BEYOND CLAMPING AREA OF ITEM 4 (CABLE CLAMP).
 2. ALIGN THE THREE OBOUND HOLES IN ITEM 8 OR 9 WITH THE MATCHING OBOUND HOLES IN ITEM 3.

CAUTION: SEE OFF SHEET PARTS LIST
K-PL-7016478-0-DBP, (Z5524A.PLS)

QTY	DESCRIPTION	PART NO.	ITEM NO.
1	LABEL, PWR SUPPLY	9009255-00	10
1	LABEL, H714OAB (220-240V)	3616977-01	9
1	LABEL, H714CAA (120V)	3616977-00	8
2	WASHER, FLAT, 3/16X1/8	9006660-00	7
2	NUT, KEP #8-32X1/2 AF	9006563-00	6
2	SCR, FLAT, PHIL #8-32X1/2 LG	9006042-02	5
2	CLAMP, CABLE	1215566-00	4
1	COVER, A.C.	D-MD-742248C-0	3
1	CORD ASSY, LINE (220-240V)	D-1A-7016907-1-0	2
1	CORD ASSY, LINE (120V)	D-1A-7016907-0-0	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
APPROX. DIMENSIONS	CLASS OF ACCURACY
SURFACE QUALITY	CHECK DIMS
FINISHES	PREFERRED
QUANTITY & VARIATION	5-16-75
DATE	2/19/75
CHKD	2/19/75
ENGR	2/19/75
PROL ENGR	2/19/75
PROD. T	2/19/75
DO NOT SCALE DIMS	NEXT HIGHER ASSY.
MATERIAL	E-1A-H714O-0-0
SCALE	1/1
SIZE	D
CODE	AD
NUMBER	7016478-0-0
REV.	A

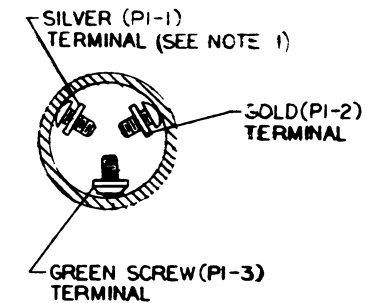
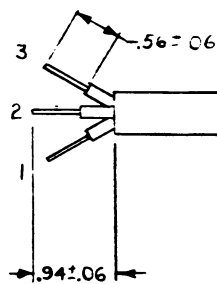
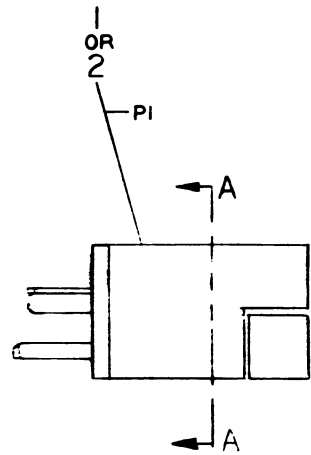
REV.	DATE	BY	CHKD
1	12-1-75	W. J. W.	W. J. W.
2	12-1-75	W. J. W.	W. J. W.
3	12-1-75	W. J. W.	W. J. W.
4	12-1-75	W. J. W.	W. J. W.
5	12-1-75	W. J. W.	W. J. W.
6	12-1-75	W. J. W.	W. J. W.
7	12-1-75	W. J. W.	W. J. W.
8	12-1-75	W. J. W.	W. J. W.
9	12-1-75	W. J. W.	W. J. W.
10	12-1-75	W. J. W.	W. J. W.

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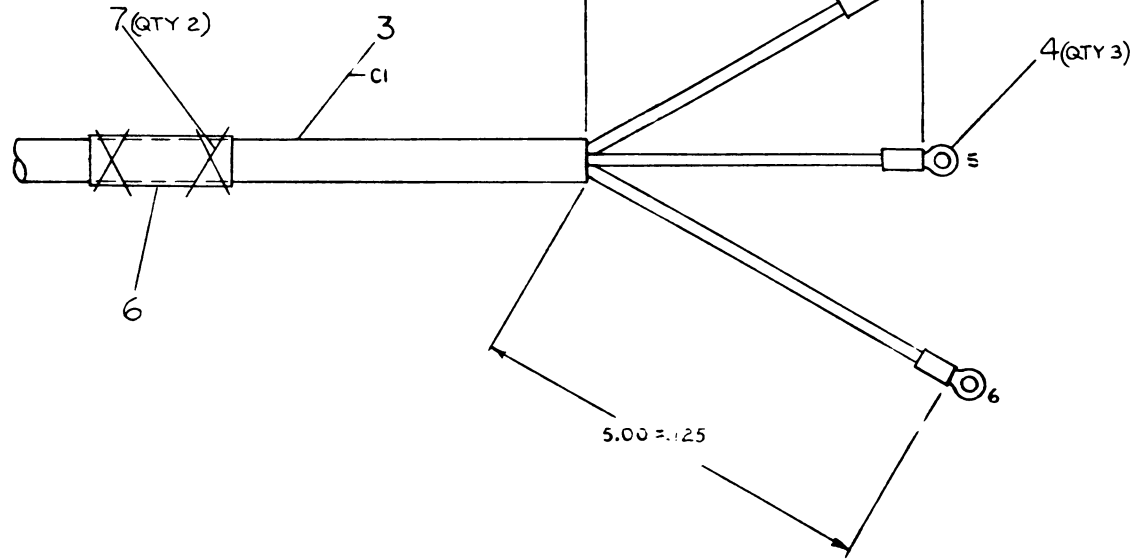
WIRING TABLE									
ITEM	DESCRIPTION		TO			FROM			LENGTH
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
3	14	GRN/YEL	CI-1	PI-3	---	CI-6	---	4	9' 5.0 $\pm$ 2.0"
3	14	BLU	CI-2	PI-1	---	CI-5	---	4	9' 4.0 $\pm$ 2.0"
3	14	BRN	CI-3	PI-2	---	CI-4	---	4	9' 4.0 $\pm$ 2.0"

PARTS LEGEND	
PART NUMBER	VARIATION
7016907-00	120 V
7016907-01	220V-240V

- NOTES:
1. TERMINAL PI-1 SILVER ON 120 V (1215183-00) VARIATION ONLY. ON 230V VARIATIONS (9008853-00) PI-1 & PI-2 ARE GOLD.
 2. AFTER ASSY, COIL ITEM 3 (PWR CORD) 3 TIMES LEAVING ENDS APPROX 18 INCHES EACH SIDE, CABLE TIE COILS TOGETHER USING ITEM 7.



SECTION A-A
(ITEM #1 SHOWN)



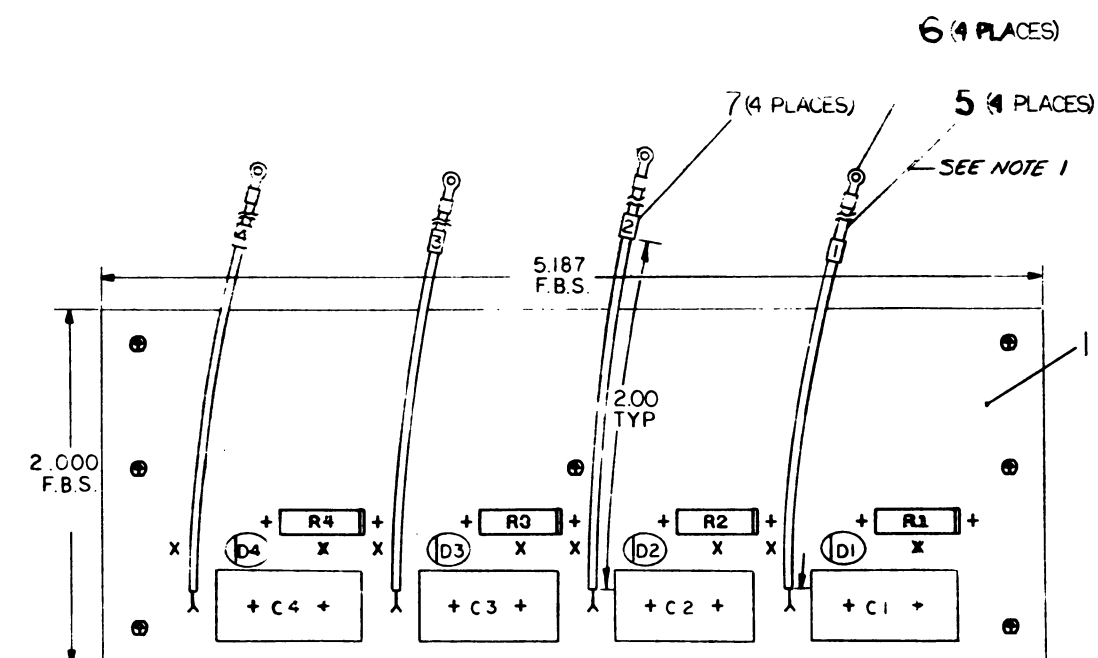
3	3	CABLE TIE SSTI-M	9007031-00	7
1	1	LABEL, CABLE IDENT.	9009532-00	6
1	1	LABEL, AC LINE CORD WARNING	3611448-00	5
3	3	TERM. RING, 1 POS, INS, 14AWG	9007928-00	4
3	3	POWER CORD, 14-3, 15A, 300V	1700027-01	3
1	1	CONN, PWR PLUG NEMA 6-15P	9008853-00	2
1	1	CONN, PWR PLUG NEMA 5-20P	1215183-00	1

7016907-01	7016907-00	DESCRIPTION	DRG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLES 45° 90°				
CLASS OF ACCURACY (CHECK ONE)				
SURFACE QUALITY IN				
MICROINCHES				
QUANTITY & VARIATION				
THIRD ANGLE PROJECTION				
REMOVE BURRS AND BREAK SHARP CORNERS				
DO NOT SCALE DRWG				
MATERIAL SEE PARTS LIST				
FINISH				
DRN. J. M. [Signature]				
CHK'D [Signature]				
ENG. R. A. [Signature]				
PROL. ENG. [Signature]				
PROD. [Signature]				
NEXT HIGHER ASSY.				
D-AD-7016478-0-C				
SCALE NONE				
SHEET 1 OF 1				
FIRST USED ON H7140				
TITLE LINE CORD ASSY				
SIZE CODE NUMBER REV.				
D AD 7016907-0-0 *				

THE ABOVE IS A SUMMARY OF THE INFORMATION CONTAINED IN THE ATTACHED DOCUMENTS. THE INFORMATION IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.




CHK	CHANGE	NO	REV



ETCH REV. A
P.C. DESIGN DATA BASE REV. A

SIGNATURES		DATE	digital		
DRN. <i>D. Lent</i>		7-7-78			
CHK'D. <i>D. Lent</i>		7-9-78			
ENG. <i>D. Newman</i>		6-26-79	TITLE H7140		
PROJ. ENG. <i>D. Newman</i>		6-26-79	SNUGGER BOARD		
PROD. <i>F. Wynn</i>		7-13-78			
SCALE	2 / 1	SIZE	CODE	NUMBER	REV
SHT.	1 OF 2	D	UA	5413663-0-0	*
NEXT HIGHER ASSY. 8-DD-5413663-0					

8	7	6	5	4	3	2	1	MS# 125683A
---	---	---	---	---	---	---	---	-------------

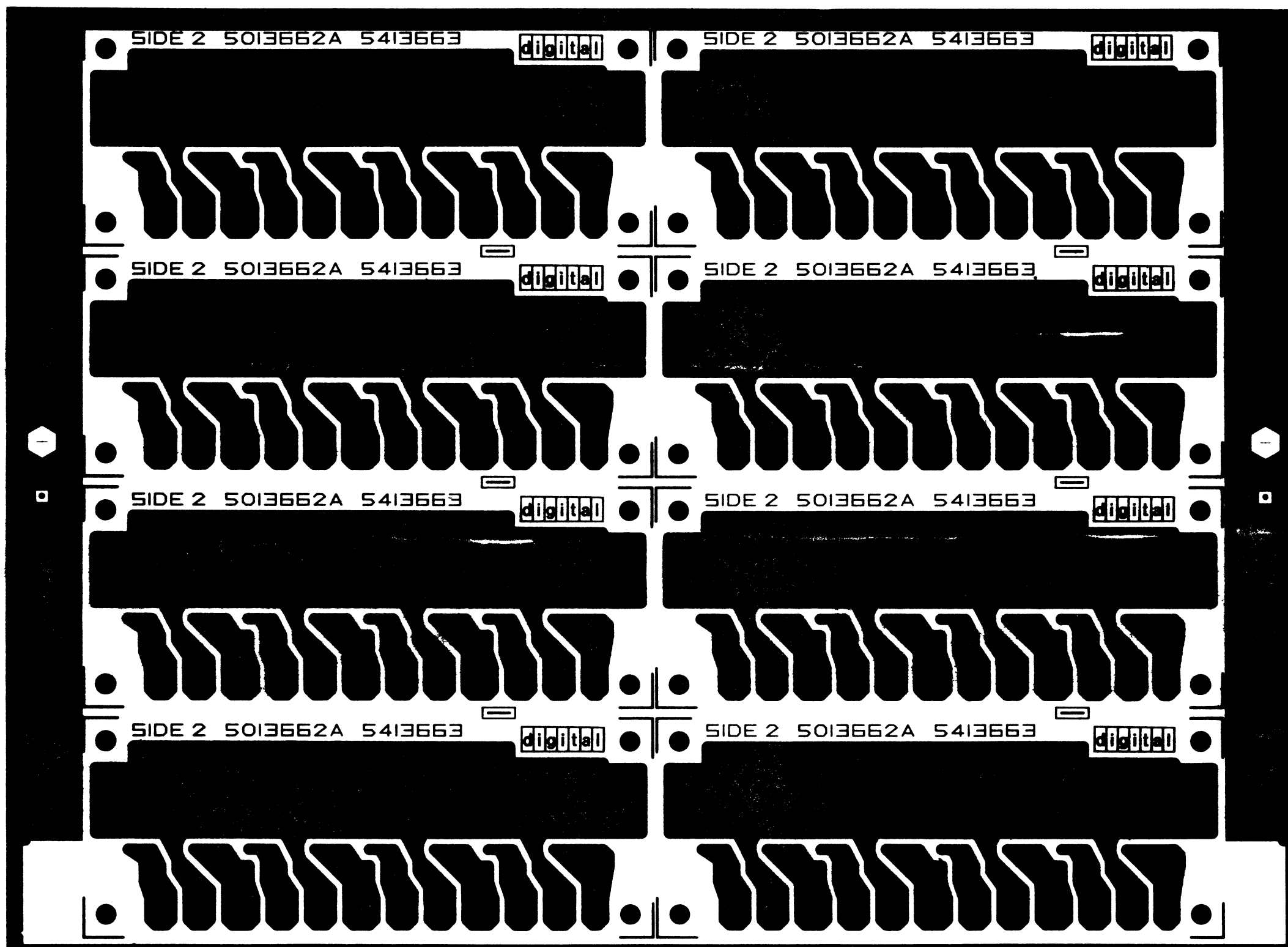
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C

B

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REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO
060 137

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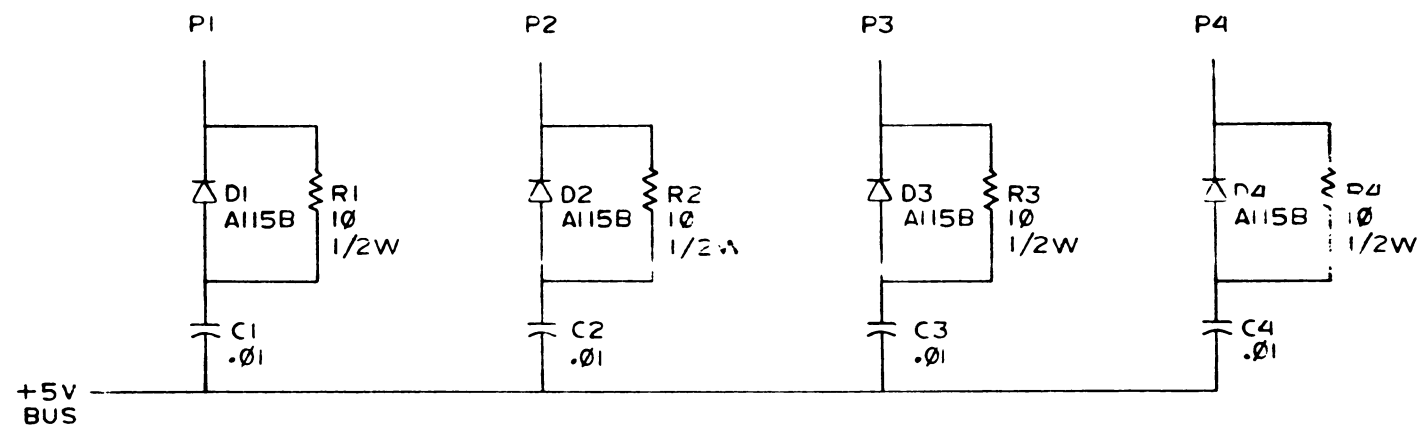
3

2

1

TITLE		SIZE CODE	NUMBER		REV.
H7140 SNUBBER BOARD		D UA	5413663-0-0		*
SCALE	2/1	SHEET	2	OF	2
DIST.		700		1	

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REVISIONS	
CHK	CHANGE NO.
1	5413663 - JWO01
2	17-SEP-81
3	R. HEATON
4	(2012) 11-01-1

DEC FORM NO.
DNC 111-4

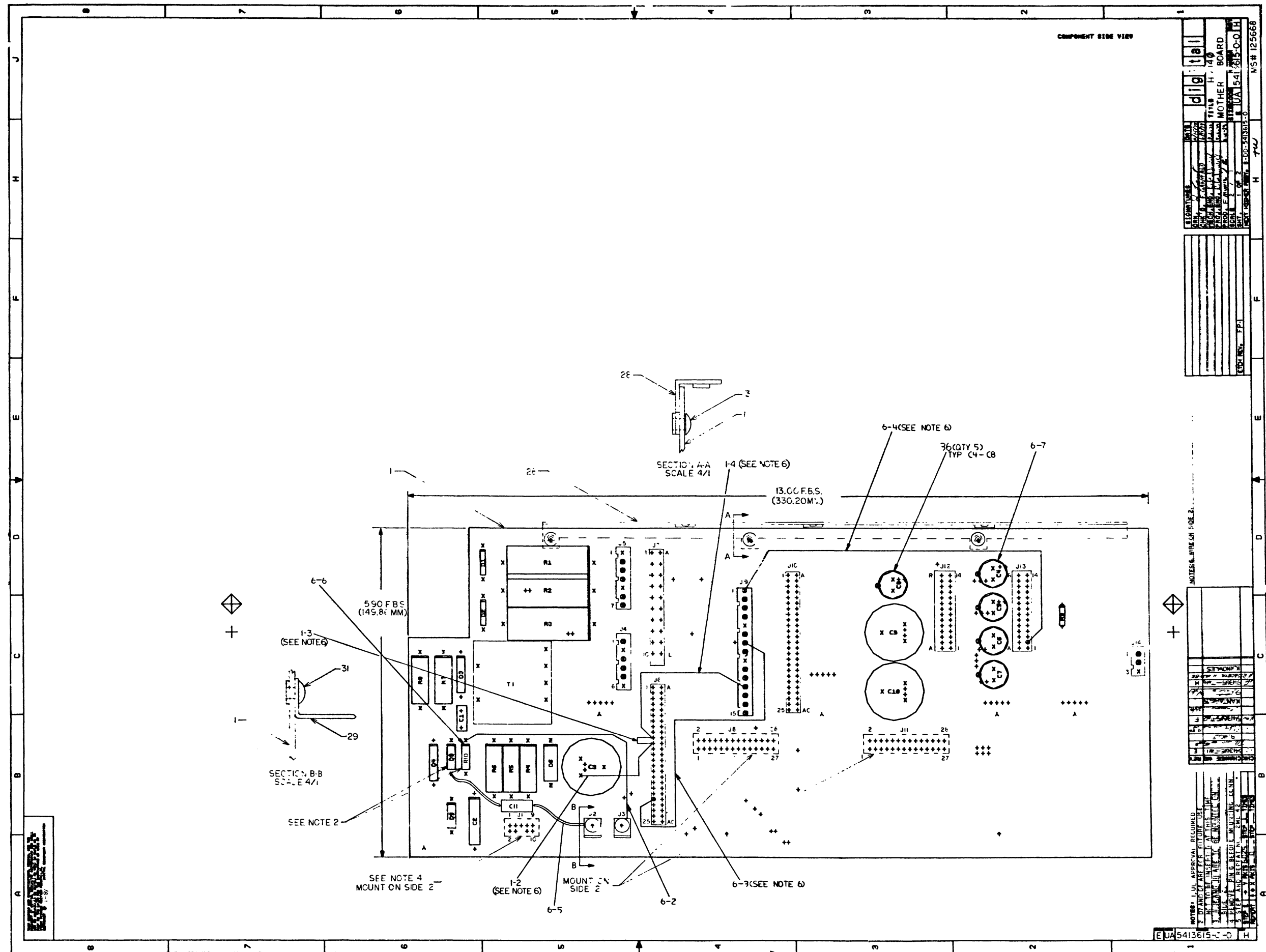
QTY.	DESCRIPTION	PART NO.	ITEM NO.	
PARTS LIST				
DRN	James Angel	DATE 3-29-79		
CHKD.		DATE 5-27-79		
ENG	W. Vannon	DATE 6/26/79		
PROJ. ENG.	R. Harrison	DATE 6/26/79		
PROD.	W. Vannon	DATE 7-13-79		
NEXT HIGHER ASSY.		TITLE		
		H7140 SNUBBER BOARD		
FIRST USED ON OPTION/MODEL		SIZE CODE	NUMBER	
		C CS	5413663-0-1	
SCALE NCNE		REV.	A	
SHEET 1 OF 1		DIST.		

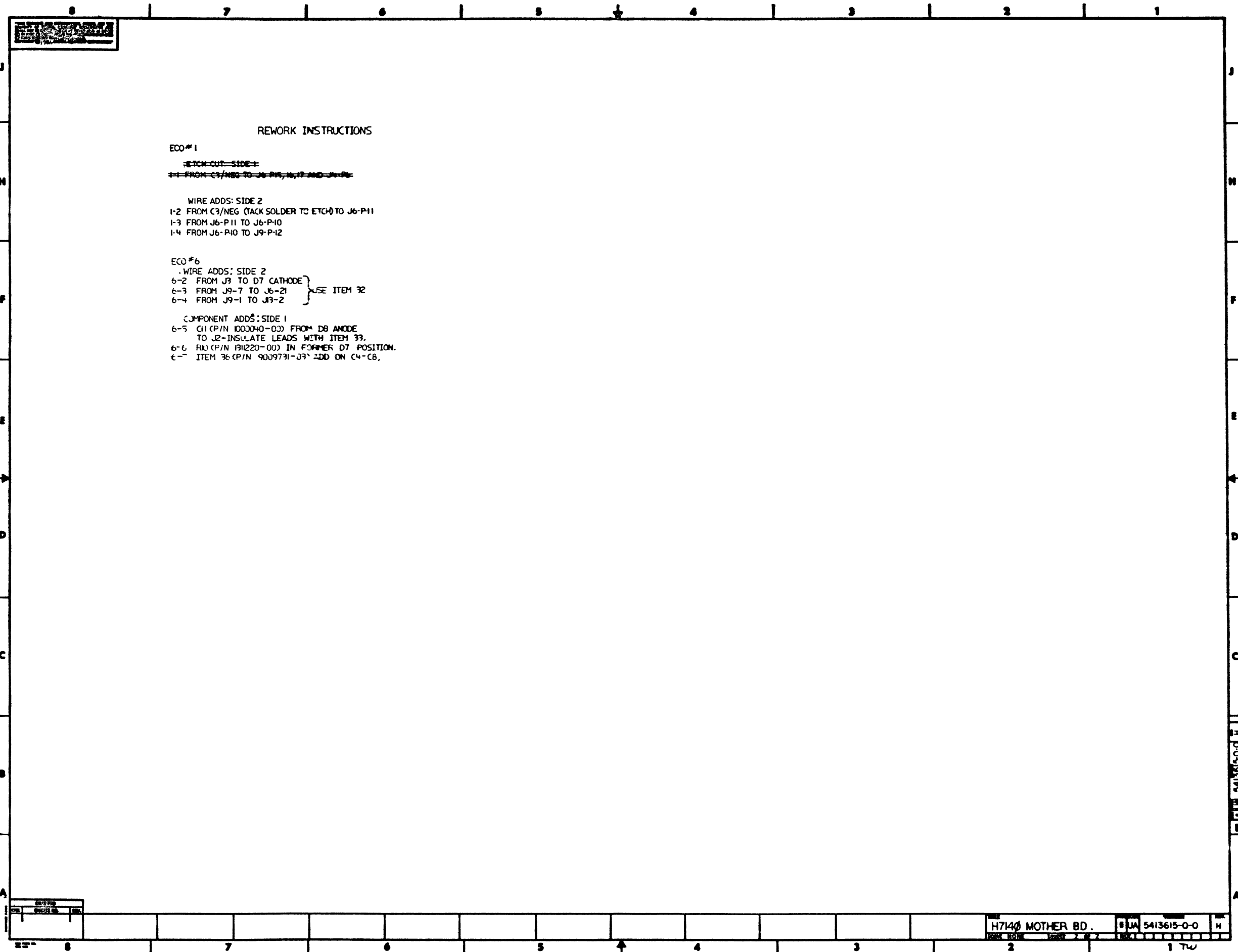
TW

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
		D-MD-5013662-0-0	5013662-00	DRILL & ETCH 3D	1	
			1011847-01	.01 MFD 400V 10% POLYPROP	4	C1-C4
			1112594-01	A115B PIV=200 I= 3A	4	D1-D4
			1300168-00	10.0 50 W 5.0 % CC	4	R1-R4
			9107809-33	WIRE STRND. 18AWG. IFVO UL143	A	
			9007930-00	TERM. RING #10STUD CRIMP 16-2	1	
			9008356-01	WIRE MARKER, NUMERIC, 1-48	1	

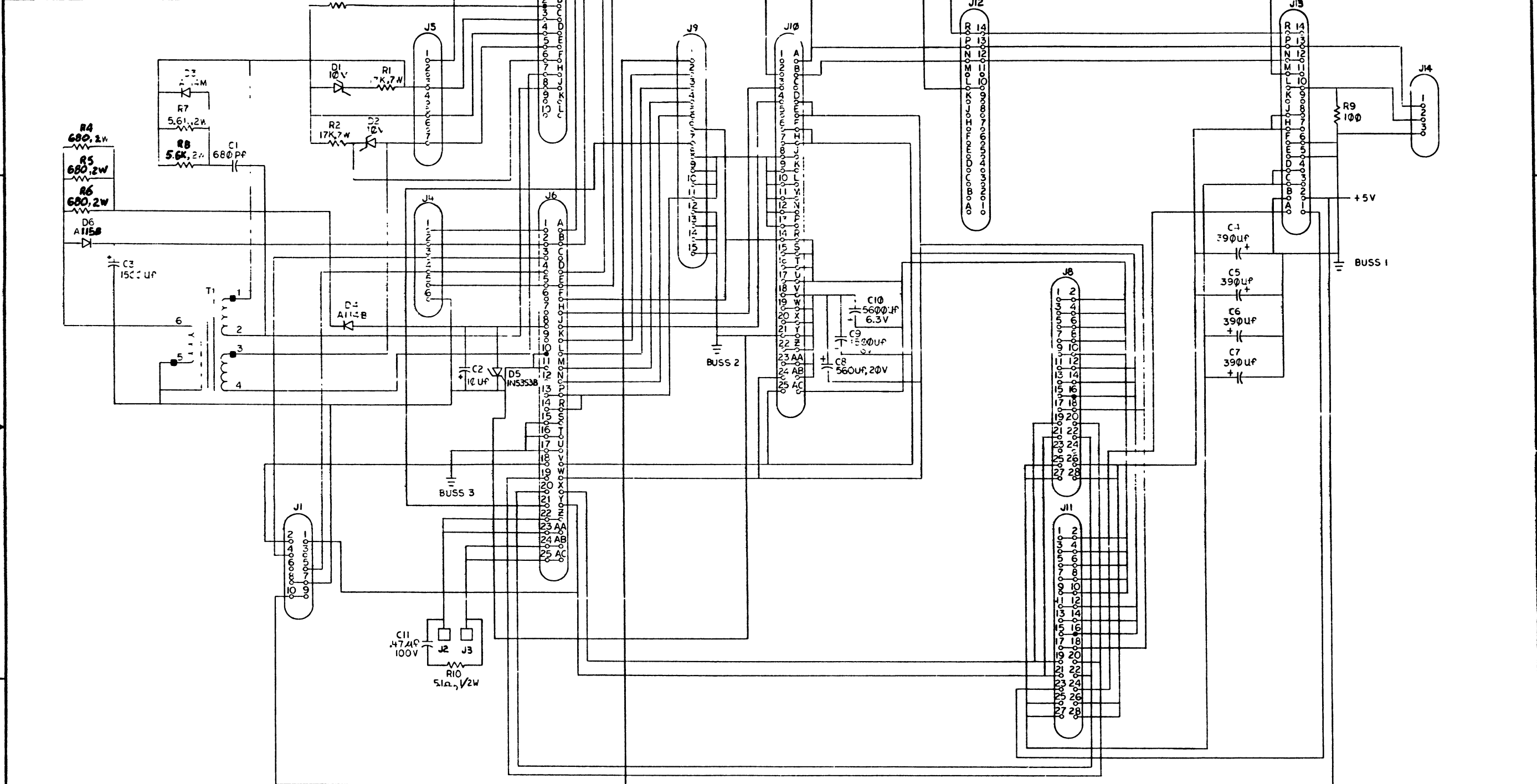
8 NOTE: ITEM #5, 1.33' IS USED.

REVISION HISTORY		BASIC PART NO: 5413663		D E I G I T A L	
ENG	ECC NUMBER	REV	SECTION A OF A	DATE: 22-MAY-79	TITLE
---	INITIAL	*	SECTION VARIATION INDEX	DATE: 19-JUL-79	PARTS LIST
EO	5413663-TW001	A	[A] 00	DATE: 22-MAY-79	SNUBBER BOARD ASSY
			[B]	DES. ENG: J.A.HERRMANN	
			[C]	DATE: 22-MAY-79	
			[D]	RESP. ENG.: J.A.HERRMANN	DOCUMENT NUMBER
			[E]	DATE: 22-MAY-79	SIZE CODE NUMBER REV
			[F]		
			[G]	MFG. ENG.: F.MUNIZ	K PL 5413663-0-DBF A
			[H]	DATE: 19-JUL-79	
			[I]	ASSEMBLY NUMBER:	FILE NAME:
			[J]	0-0A-5413663-0-0	20625A.PLS
			[K]	TOP DOCUMENT NUMBER:	EDIT
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			[MV]		
			[MW]		
			[MX]		
			[MY]		
			[MZ]		
			[NA]		
			[NB]		
			[NC]		
			[ND]		
			[NE]		
			[NF]		
			[NG]		
			[NH]		
			[NI]		
			[NJ]		
			[NK]		





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REVISIONS	
REV.	DATE
1	11-2-78
2	11-2-78
3	11-2-78
4	11-2-78
5	11-2-78
6	11-2-78
7	11-2-78
8	11-2-78

DRN. <i>Eng. Design</i>	11-2-78	FIRST USED ON	H7140
CHK'D <i>W. J. Sullivan</i>	11-2-78	TITLE	H7140 MOTHER BOARD
ENG. <i>W. J. Sullivan</i>	9-6-78	SIZE	D
PROJ. ENG. <i>W. J. Sullivan</i>	9-6-78	CODE	CS 5413615-0-1
PROD. <i>W. J. Sullivan</i>	9-6-78	NUMBER	1
NEXT HIGHER ASSY.		REV.	H
SCALE	1 OF 1	DIST.	
SHEET	1	OF	1

MANUFACTURE P. 100

CS 5413615-0-1 H 2 1

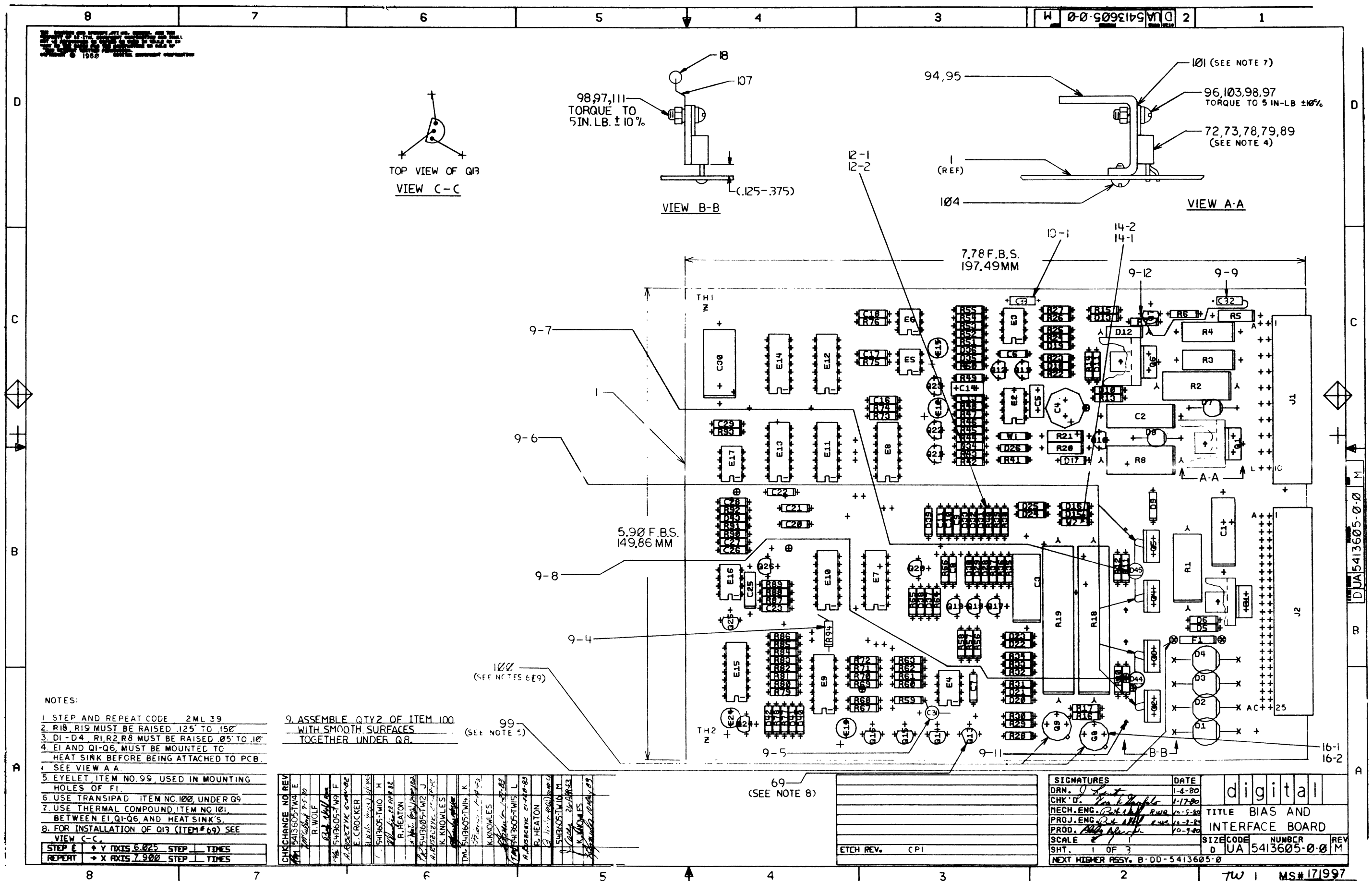
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5013614-0-0	5013614-00	DRILL & ETCH BD	1	
2	2		1004813-00	10 MFD 20V 10% S.TANT	1	C2
3	3		1012607-00	560 MFD 20V+100-10% AL FL	1	C8
4	4		1012607-06	390 MFD 20V+100-10% AL EL	4	C4-C7
5	5		1013280-00	680.0 MMF 1000V 5%200PPM MICA	1	C1
6	6		1014229-00	1500 MFD 16V +75-10% AL EL	2	C9,C3
7	7		1016169-00	5600 MFD 6.3V +75-10% AL EL	1	C10
8	8		1110854-00	1N 5353B VZ= 16.0V 5% .40W M	1	D5
9	9		1100125-00	1N 758A VZ= 10.0 5% .40W PPE	2	D1,D2
10	10		1112594-01	A115B PIV=200 I= 3A	1	D6
11	11		1112595-01	A114B PIV=200 I= 1A	1	D4
12	12		1112595-02	A114M PIV=600 I= 1A	1	D3
13	13		1215341-01	PCB HEADER 10PIN(2X05).100CC STR	1	J1
14	14		1211004-00	PCB,HEADER 28SKT(2X19).100CC	4	J12,J13,J11,J8
15	15		1211004-04	PCB,HEADER 40SKT(2X20).200CC	1	J7
16	16		1211004-05	PCB,HEADER 50SKT(2X25).100CC	2	J6,J10
17	17		1216122-01	PCB,HEADER 07PIN(1X07).156CC KEY	1	J5
18	18		1216122-02	PCB,HEADER 15PIN(1X15).156CC KEY	1	J9
19	19		1216122-04	/REPLACED BY 12-12619-08	1	J14
20	20		1216122-05	/REPLACED BY 12-12619-07	1	J4
21	21		1300229-00	100.0 .25 W 5.0 % CF	1	R9
22	22		1300348-00	680.0 2.0 W 5.0 % CC	3	R4-R6
23	23		1300456-00	5.60 K 2.0 W10.0 % CC	2	R7,R8
24	24		1316207-00	3.0 K 7.0 W 5.0 % WW	1	R3
25	26		1316209-00	17 0 K 7.0 W 5.0 % WW	2	R1,R2
26	27		1616215-00	XFMR P=240/360 S=5V	1	T1
27	28		7422391-00	SUPPORT,MOTHER BOARD	1	
28	29		9008219-00	TERM,TAB .250TAB .130STUD MN	2	J2,J3
29	31		9009000-00	EYELET,ROLLED 0.1210DX0.156	5	
30	32	(SEE NOTE 1)	9107688-55	WIRE(WRAP) 24AWG KYNAR UL13 A/R		

REVISION HISTORY			BASIC PART NO: 5413615			DRN: M.CICCONE		DATE: 27-MAR-79		D I G I T A L				
ENG:	ECO NUMBER	REV	SECTION A OF A		CHK'D:	E.T.GERRY	DATE: 27-MAR-79		TITLE PARTS LIST					
	INITIAL	D	SECTION VARIATION INDEX						MOTHER BOARD					
R.W	TW001	E	[A] 00											
AK	TW002	F	[B]		DES.ENG:	R.WOLF	DATE: 27-MAR-79							
KK	5413615-TW006	H	[C]						DOCUMENT NUMBER					
			[D]		RESP.ENG.:	R.WOLF	DATE: 27-MAR-79		SIZE CODE NUMBER REV					
			[E]						K PL 5413615-0-DBP H					
			[F]		MFG.ENG.:	P.WAITKUS	DATE: 6-AUG-79							
			[H]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: 20376H.PLS					
			[J]		D-UA-5413615-0-0				EDIT # 16					
			[K]											
			[L]											
			[M]											
			[N]											
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	33	(SEE NOTE 2)	9107278-11	TUBING,TEFLON .042ID	A/R	
32	34		1000040-00	.47 MFD 100V 10%	MYLR 1	C11
33	35		1311220-00	5.10 .50 W 5.0 %	CF 1	R10
34	36		9009731-03	CAP,OPT. VINYL .500 ID	5	

35 NOTE: 1. FOR ITEM #32, 2 FT. IS USED.
36 NOTE: 2. FOR ITEM #33, 12 INCHES IS USED.

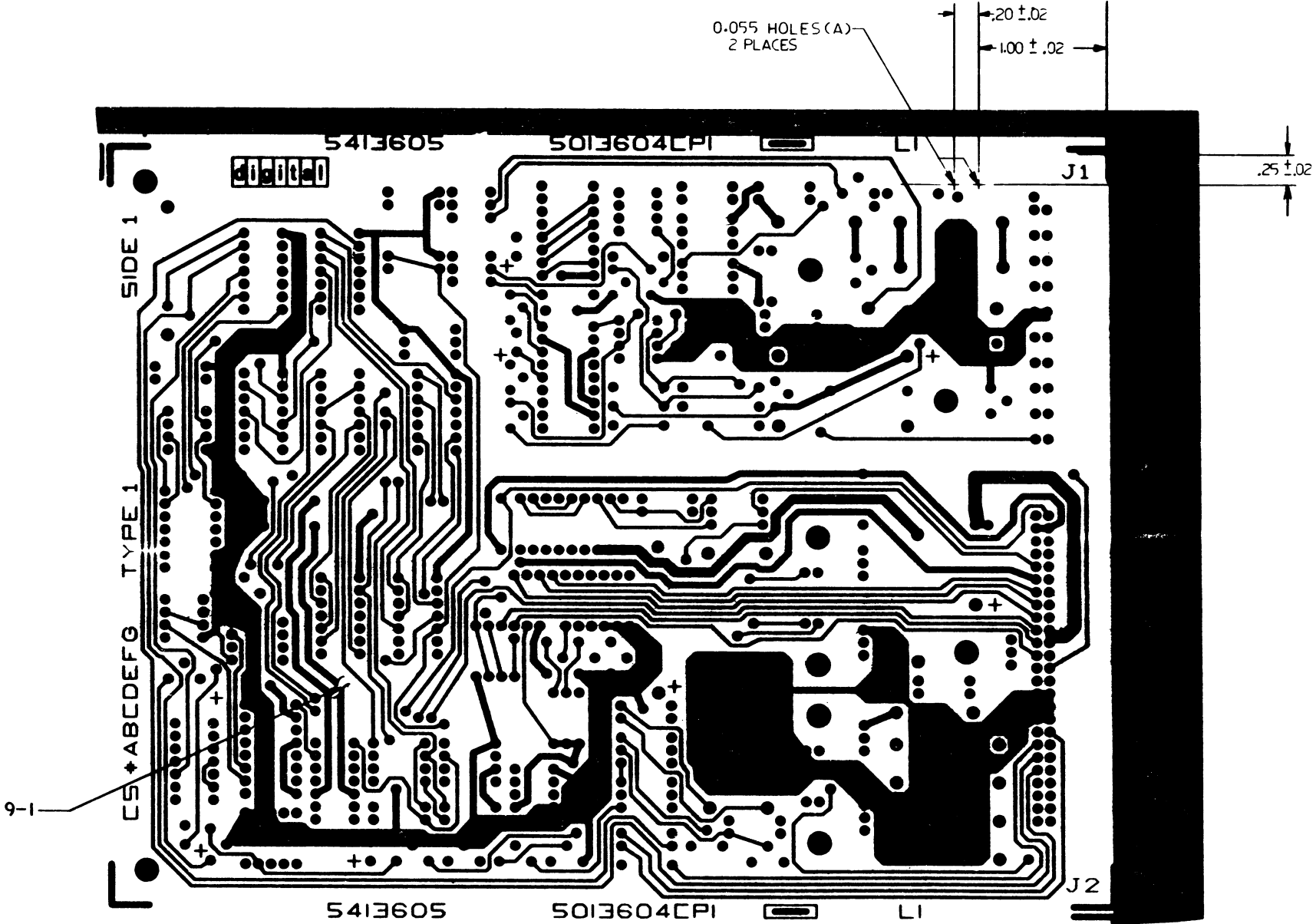
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MOTHER BOARD		K	PL	5413615-0-DBP	H



8 7 6 5 4 3 2 1

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REV	ECO NUMBER	DATE
1		

TITLE
BIAS AND
INTERFACE BOARD

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
D	UA	5413605 C-0	1
SCALE		2/1	SHEET 2 OF 3

tw 1

8

W 0-0-509E145VND

6

5

4

3

2

1

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REWORK INSTRUCTIONS

ECO #9

ETCH CUTS SIDE 1:

9-1 CUT ETCH FROM E9-3 TO C20.

ETCH CUTS SIDE 2:

9-2 CUT ETCH FROM Q4-C TO Q5-C.

9-3 CUT ETCH FROM Q2-C TO Q3-C.

COMPONENT ADDS SIDE 1

9-4 INSTALL R94 ACROSS ETCH CUT 9-1 BY
TACK SOLDER AS SHOWN.9-5 INSTALL POS. END OF C31 TO END OF R59
ADJACENT TO E4 USING A .125" LENGTH OF
TUBING (ITEM 110) AND SOLDERING NEG. END
TO ETCH BETWEEN E4 AND Q14.9-6 INSTALL SOLDER TERMINALS (ITEM 107) ON
COLLECTOR TABS OF Q2-Q5 USING EXISTING
HARDWARE AS SHOWN.9-7 CONNECT D45 TO TERMINALS ON Q4 AND Q5
WITH CATHODE (BLACK BAND) CONNECTED TO Q4.9-8 CONNECT D44 TO TERMINALS ON Q2 AND Q3
WITH CATHODE (BLACK BAND) CONNECTED TO
Q2.9-9 INSTALL C32 BY DRILLING TWO .055 HOLES
(AS SHOWN ON SHEET 2 OF 3 OF THE UA
PRINT) AND INSTALL GRIPLET (P/N 12-10244-01) IN
HOLE NEAREST EDGE CONNECTOR ONLY. TACK
SOLDER TO ETCH BETWEEN R5 AND R6 ON
SIDE 2.

COMPONENT DELETE SIDE 1:

9-10 REMOVE HEAT SINKS (ITEM 95) FROM Q2-Q5.

COMPONENT DELETE SIDE 2:

9-11 REMOVE FOUR(4) TAPPING SCREWS (ITEM 104)
USED TO SECURE HEAT SINKS (ITEM 95).

WIRE ADDS SIDE 1:

9-12 INSTALL WIRE (ITEM 114) IN HOLE WITH GRIPLET
AND CONNECT TO Q7 COLLECTOR.

REWORK INSTRUCTIONS

ECO #10

COMPONENT ADD SIDE 1:

10-1 ADD C33 BY HANDDRILLING 2 .055 HOLES AND TACK
SOLDERING ONE LEAD TO RUN THAT E3-PIN 3 IS
ATTACHED TO, AND TACK SOLDERING THE OTHER
LEAD TO RUN THAT IS ATTACHED TO E3-PIN 4 (BOTH
CONNECTIONS SHOULD BE TACK SOLDERED ON SIDE #2.

REWORK INSTRUCTIONS

ECO #12

COMPONENT DELETE SIDE 1

12-1 DELETE R40, DEC P/N 1303439-00.

COMPONENT ADD SIDE 1

12-2 ADD R40, DEC P/N 1303890-00.

REWORK INSTRUCTIONS

ECO #14

COMPONENT DELETE SIDE 1

14-1 REMOVE D14

WIRE ADD SIDE 1

14-2 ADD JUMPER (ITEM 102) IN PLACE OF D14.

REWORK INSTRUCTIONS ECO #16

COMPONENT DELETES SIDE 1

16-1 REMOVE Q8 P/N 15-10959-00 AND DISCARD

COMPONENT ADDS SIDE 1

16-2 ADD Q8 P/N 15-10959-00 WITH QTY 2 OF
ITEM 100 PREASSEMBLED WITH SMOOTH
SURFACES TOGETHER

REVISION HISTORY

DATE	ECO NUMBER	REV

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
D	UA	5413605-0-0	M
SCALE	2/1	SHEET	3 OF 3

TITLE
BIAS AND INTERFACE BOARD

ORD 138A

8

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4

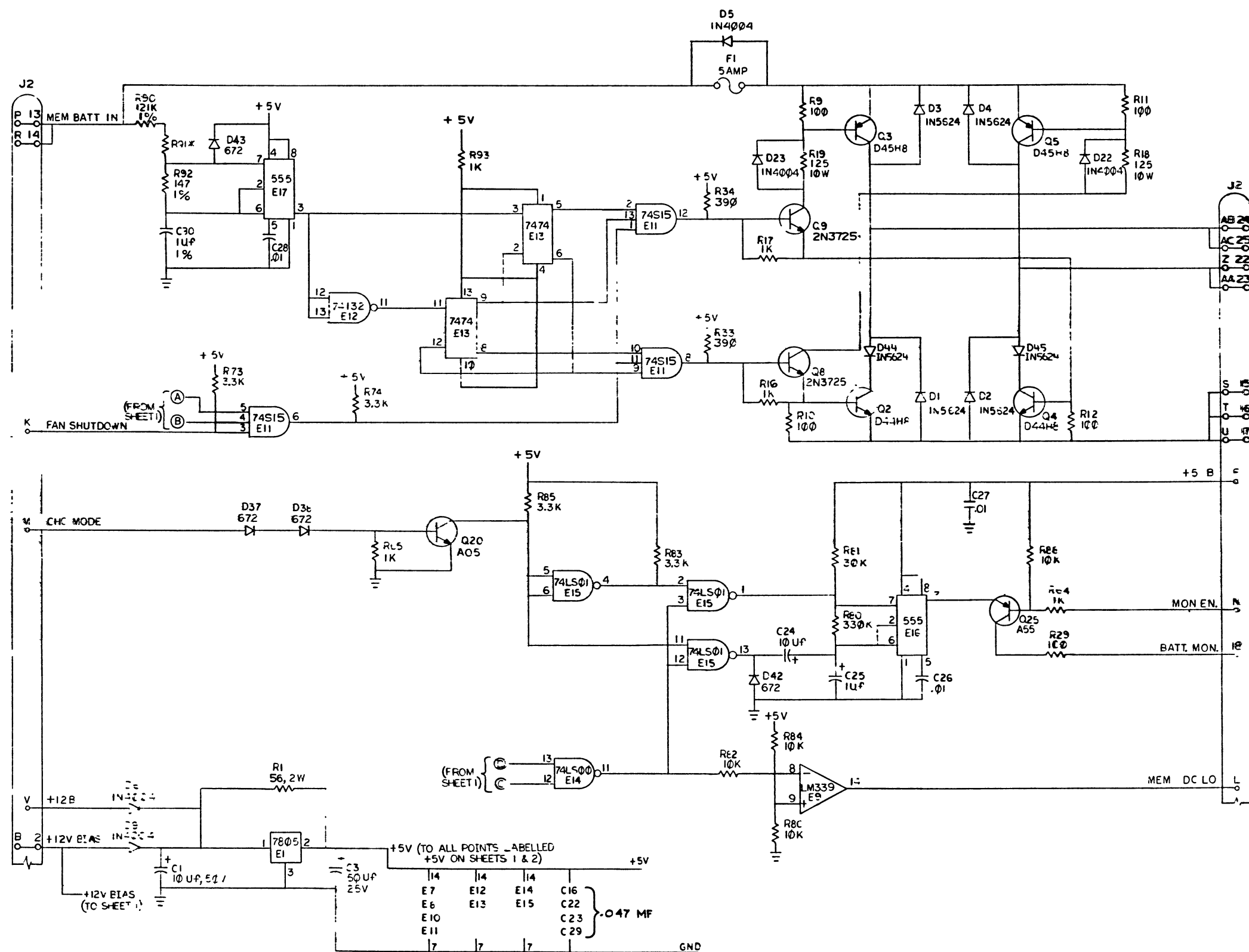
3

2

1

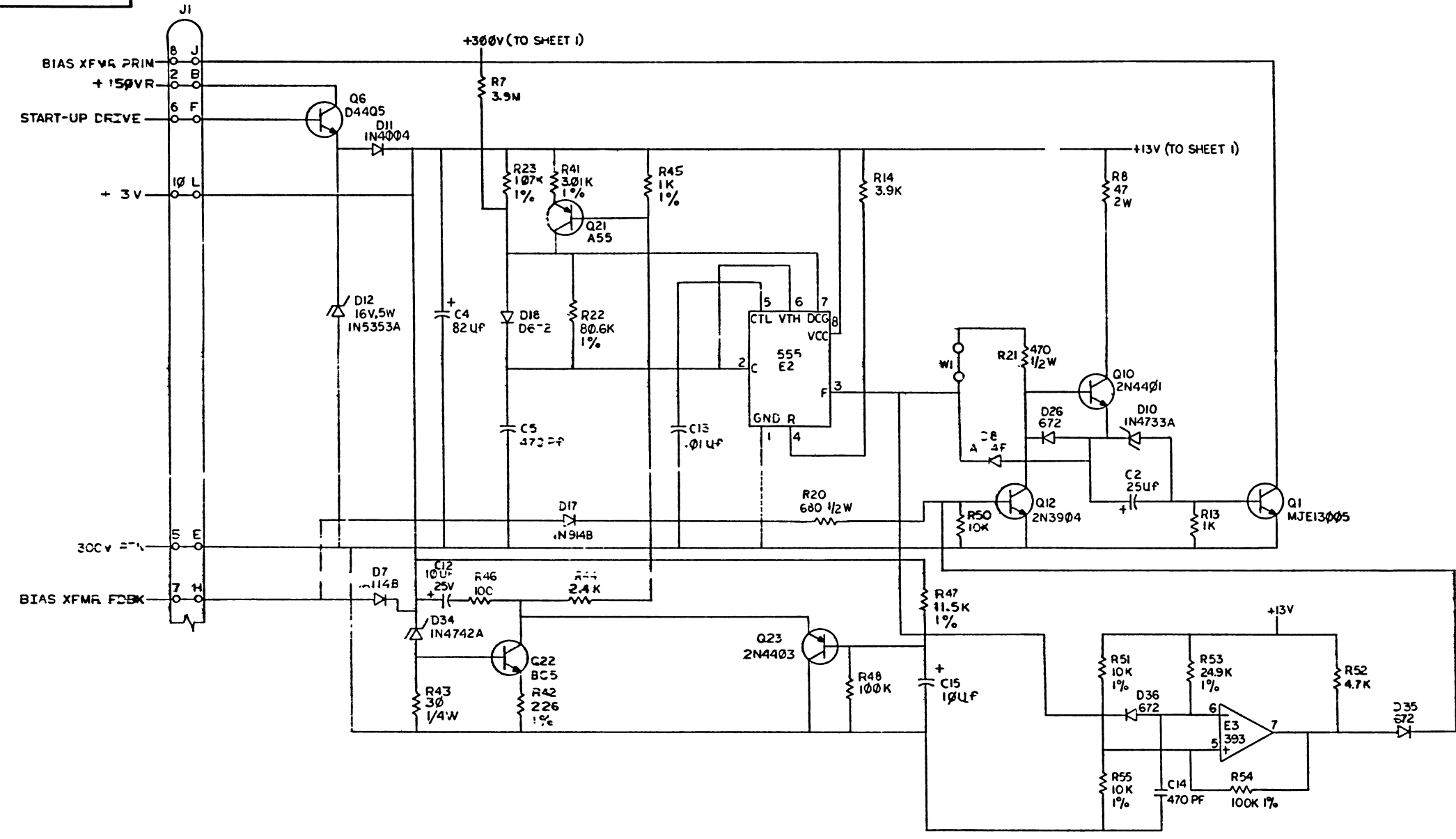
**IA**

COMPONENT DESIGNATORS	-00 VAR	YA VAR
R91	5.36K 1%	40.2K 1%



REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	YA		
1	1	D-MD-5013604-0-0	5013604-00	DRILL & ETCH BD	1	1		
2	2		1000024-00	470.0 MMF 100V 5%200PPM MICA	2	2		C5,C14
3	3		1000070-00	10 MFD 50V+100-10% AL EL	1	1		C1
4	4		1000075-00	25 MFD 25V +75-10% AL EL	1	1		C2
5	5		1001610-00	.01 MFD 50V +80-20% Z5U CER	11	11		C6,C9-C11,C13,C17,C18,C21.
6	6		1001776-00	1 MFD 35V 10% S.TANT	1	1	CONT	C26-C28
7	7		1001796-00	50 MFD 25V +75-10% AL EL	1	1		C25
8	8		1010866-02	10 MFD 25V +50-20% S.TANT	4	4		C3
9	9		1012784-00	.047 MFD 50V +80-20% CER	6	6		C12,C15,C24,C31
10	10		1013252-00	82 MFD 50V+100-10% AL EL	1	1		C7,C16,C20,C22,C23,C29
11	11		1016138-00	1 MFD 50V 1% M.POLYCARB	1	1		C4
12	12		1105275-00	PIV= 60 IO=300 MA -15NS	23	23		C30
13	13		1105796-00	PIV= 400 IO= 1.00A 1N4004 D7-41	7	7	CONT	D15,D16,D18-D21,D24-D26,D28-D33.
14	14		1105871-00	VZ= 5.15 1% 250 MW	1	1		D35-D38,D40-D43
15	15		1109502-02	VZ= 12.0 5% 1 W 1N4742A	1	1		D5,D6,D9,D11,D22,D23,D39
16	16		1109517-00	PIV= 75 IO=150 MA - 4NS 1N914B	1	1		D13
17	17		1109943-00	VZ= 5.1 5% 1 W 1N4733A	1	1		D34
18	18		1110420-00	PIV= 200 IO= 5.00A 1N5624	6	6		D17
19	19		1110854-00	VZ= 16.0 5% 400 MW 1N5353B	1	1		D10
20	20		1112595-00	PIV= 50 IO= 1.00A AXIAL	1	1		D1-D4,D44,D45
21	21		1112595-01	PIV= 200 IO= 1.00A AXIAL	1	1		D12
22	22		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	1		D8
23	23		1216112-02	PCB,HEADER 20POS(1X20).156CC 90D	1	1		D7
24	24		1216112-03	PCB,HEADER 50POS(1X50).156CC 90D	1	1		F1
25	25		1300229-00	100.0 .25 W 5.0 % CF	7	7		J1
26	26		1300309-00	390.0 .25 W 5.0 % CF	2	2		J2
27	27		1300315-00	470.0 .50 W 5.0 % CF	1	1		R9-R12,R29,R31,R46
28	28		1300347-00	680.0 .50 W 5.0 % CF	1	1		R33,R34
								R21
								R20

REVISION HISTORY			BASIC PART NO: 5413605			DRN: J.FERGUSON			DATE: 16-OCT-80			D I G I T A L			
ENG:	ECO NUMBER	REV	SECTION A OF A			CHK'D: F.GAROFALO			DATE: 16-OCT-80			TITLE PARTS LIST			
---	INITIAL	E	SECTION VARIATION INDEX			DES.ENG: R.WOLF			DATE: 16-OCT-80			BIAS AND INTERFACE BD			
EC	5413605-TW009	F	[A]	00, YA		RESP.ENG.: R.WOLF			DATE: 16-OCT-80			DOCUMENT NUMBER			
RH	5413605-TW010	H	[B]			MFG.ENG.: J.COMELLA			DATE: 16-OCT-80			SIZE	CODE	NUMBER	REV
KK	5413605-TW012	J	[C]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			K	PL	5413605-0-DBP	N
KK	5413605-TW014	K	[D]			D-UA-5413605-0-0			B-DD-5413605-0-0			FILE NAME: Z04C2N.PLS			EDIT #
RH	5413605-TW015	L	[E]												4
KK	5413605-TW016	M	[F]												
RW	5413605-TW017	N	[H]												
			[J]												
			[K]												
			[L]												
			[M]												
			[N]												

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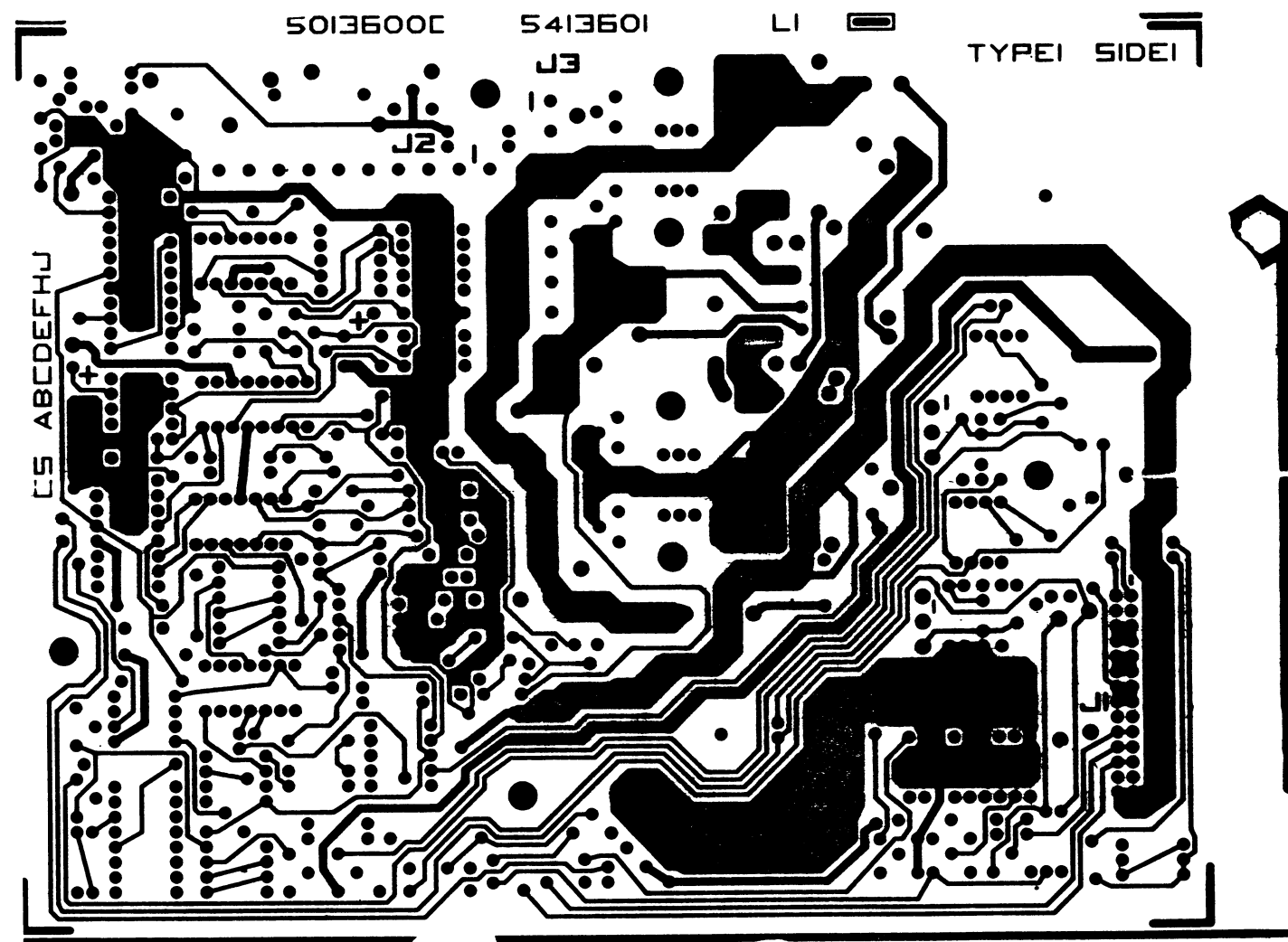
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					00	YA		
29	29		1300365-00	1.0 K .25 W 5.0 % CF	10	10		R6,R13,R16,R17,R49,R64,R65,R69,R71,R93
30	30		1300439-00	3.30 K .25 W 5.0 % CF	13	13	CONT	R38,R39,R56-R58,R66,R73-R76,R79,R83,R85
31	31		1300444-00	3.90 K .25 W 5.0 % CF	1	1		R14
32	32		1300447-00	4.70 K .25 W 5.0 % CF	2	2		R52,R87
33	33		1300479-00	10.0 K .25 W 5.0 % CF	12	12	CONT	R25,R35-R37,R50,R77,R78,R82,R84,R86,R88,R89
34	34		1301322-00	180.0 .25 W 5.0 % CF	1	1		R30
35	35		1302091-00	330.0 K .25 W 5.0 % CF	1	1		R80
36	36		1302177-00	47.0 K .25 W 5.0 % CF	1	1		R32
37	37		1302334-00	15.0 K 2.0 W 5.0 % CC	1	1		R2
38	38		1302394-00	30.0 K .25 W 5.0 % CF	1	1		R81
39	39		1302466-00	100.0 K .25 W 5.0 % CF	2	2		R28,R48
40	40		1302479-00	200.0 K .50 W 5.0 % CF	1	1		R5
41	41		1302644-00	226.0 .25 W 1.0 % RN55D-F10	1	1		R42
42	42		1302645-00	1.10 K .25 W 1.0 % RN55D-F10	1	1		R62
43	43		1302748-00	1.0 K .25 W 1.0 % RN55C-F 5	2	2		R26,R45
44	44		1302751-00	30.0 .25 W 5.0 % CF	1	1		R43
45	45		1302836-00	56.0 2.0 W 5.0 % CC	1	1		R1
46	46		1302860-00	11.50 K .25 W 1.0 % RN55D-F10	1	1		R47
47	47		1302874-00	147.0 .25 W 1.0 % RN55D-F10	1	1		R92
48	48		1302955-00	750.0 .25 W 1.0 % RN55D-F10	1	1		R15
49	49		1303067-00	422.0 .25 W 1.0 % RN55D-F10	1	1		R60
50	50		1303177-00	2.40 K .25 W 5.0 % CF	1	1		R44
51	51		1303305-00	6.98 K .25 W 1.0 % RN55D-F10	1	1		R70
52	52		1303322-00	274.0 K .75 W 1.0 % RN65D-F10	2	2		R3,R4
53	53		1303438-00	121.0 K .25 W 1.0 % RN55D-F10	1	1		R90
54	54	BLANK		*** THIS ITEM IS NOT USED ***	-	-		
55	55		1305108-00	1.47 K .25 W 1.0 % RN55D-F10	1	1		R61
56	56		1305125-00	383.0 .25 W 1.0 % RN55D-F10	1	1		R72
57	57		1305253-00	7.15 K .25 W 1.0 % RN55D-F10	1	1		R63
58	58		1305357-00	125.0 10.0 W 5.0 % WW	2	2		R18,R19
59	59		1309419-00	19.60 K .25 W 1.0 % RN55D-F10	1	1		R59
60	60		1305405-00	24.90 K .25 W 1.0 % RN55D-F10	1	1		R53
61	61		1313341-00	5.36 K .25 W 1.0 % RN55D-F10	2	-		R24,R91
			CONT		-	1		R24
62	62		1313775-00	80.60 K .25 W 1.0 % RN55D-F10	1	1		R22
63	63		1313843-00	107.0 K .25 W 1.0 % RN55D-F10	1	1		R23
64	64		1314023-00	47.0 2.0 W 5.0 % CC	1	1		R8
65	65		1314041-00	3.01 K .25 W 1.0 % RN55D-F10	2	2		R27,R41
66	66		1303043-00	464.0 K .25 W 1.0 % RN55D-F10	2	2		R67,R68
67	67		1314387-00	3.90 M .25 W 5.0 % CF	1	1		R7
68	68		1509524-00	2N 3904 NPN 310MW SI 40 40 M	2	2		Q11,Q12
69	69		1517832-00	J 177 FET 360MW SI P CHNNL	1	1		Q13
70	70		1510705-00	XA 05 NPN 500MW SI 60 50 P	5	5		Q17-Q20,Q26
71	71		1510706-00	XA 55 PNP 500MW SI 60 50 P	2	2		Q21,Q25
72	72		1510707-00	D 44H8 NPN 25W SI 60Q2A	2	2		Q2,Q4

D	I	G	I	T	A	L	TITLE	BIAS AND INTERFACE BD	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5413605-0-DBP	N

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY 00	PER YA	VARIATION	REFERENCE DESIGNATOR
73	73		1510708-00	D 45.0 PNP 50WT SI 60 60 Y	2	2		Q3,Q5
74	74		1510959-00	2N 3725 NPN 3 5WC SI 50 60 P	2	2		Q8,Q9
75	75		1511686-00	DEC5433 FET N 350MW 10 25 1A	4	4		Q14-Q16,Q24
76	76		1513489-00	2N 4401 NPN 350MW SI 40 20	1	1		Q10
77	77		1513490-00	2N 4403 PNP 350MW SI-40 30	1	1		Q23
78	78		1514271-01	D 44Q5 NPN 31W SI225 30	1	1		Q6
79	79		1516119-00	NPN 75W SI	1	1		Q1
80	80		1516121-00	MPS A92 PNP 625MW SI300 25	1	1		Q7
81	81		1905547-00	7474 FF-D DUAL,EDGE TRIGG	1	1		E13
82	82		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	2	2		E7,E10
83	83		1910538-00	74S15 AND GATE-TRIPLE 3IN	1	1		E11
84	84		1910741-00	7406 INVERTER GATE-HEX 1I	1	1		E8
85	85		1911036-00	75453 DRIVER,PERIPH,DUAL,	1	1		E4
86	86		1911637-00	74132 NAND GATE-QUAD 2 IN	1	1		E12
87	87		1911944-00	555CN TIMER,FUNCT.BLOCK	2	2		E2,E16
88	88		1912108-00	339 VOLT CMPRTR,QUAD	1	1		E9
89	89		1912536-01	7805 VOLT REG,FIX +5V	1	1		E1
90	90		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	1		E14
91	91		1912800-00	LS01 NAND-GATE-QUAD 2IN,P	1	1		E15
92	92		1914156-00	LM 393 VOLT.COMPARATOR DUAL	1	1		E3
93	93		1914194-00	OPTP-COUPLED ISOLATOR	2	2		E5,E6
94	94	C-MD-7422046-0-0	7422046-00	HEAT SINK,SINGLE	3	3		
95	95	BLANK		*** THIS ITEM IS NOT USED ***	-	-		
96	96		9006011-01	SCREW,MACH PAN PHIL 4-	3	3		
97	97		9006556-00	NUT,HEX 4-40X .264AF SS/N	7	7		
98	98		9006688-00	WASHER,HELICAL SPLIT SST	7	7		
99	99		9006735-00	EYELET,FUNNEL 0.0590DX0.187	2	2		
100	100		9007201-00	PAD,MOUNTING,COMPONENT	3	3		
101	101		9008268-00	COMPOUND, THERMAL JOINT	A/R	A/R		
102	102		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	2		W1,W2
103	103		9009769-00	WASHER,RECTNGLR STEEL	3	3		
104	104		9010128-00	SCREW,TAP PAN PHIL THD RL 4-	3	3		
105	105		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	2	2		R51,R55
106	106		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	1		R54
107	107		9006761-00	TERM,LUG #6STUD LOCKING 45	4	4		
108	108		1010978-32	.047 MFD 50V 10% CER	1	1		C8
109	109		1301317-00	10.0 .25 W 5.0 % CF	1	1		R94
110	110		9107256-00	TUBING,TEFLON .027ID	A/R	A/R		
111	111		9008301-01	SCREW,MACH PAN PHIL 4-	4	4		
112	112		1000043-00	1000.0 MMF 250V 20% Y5F DISC	2	2		C32,C33
113	113		1210244-01	GRIPLET, .050 STRIP FORM	1	1		
114	114		9105740-55	WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R		
115	115		1301890-00	560.0 .25 W 5.0 % CF	1	1		R40
116	116		1911944-01	555-1 TIMER FUNCT.BLOCK,5	1	1		E17
117	117		1018571-00	10 MFD 25V 10% S.TANT	1	1		C19
118	118		1510705-01	B 05 NPN 500MW SI 60 50	1	1		Q22
119	119		1314492-00	40.20 K .25 W 1.0 % RN55D-F10	-	1		R91

D	I	G	I	T	A	L	TITLE	BIAS AND INTERFACE BD	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5413605-0-DBP	N

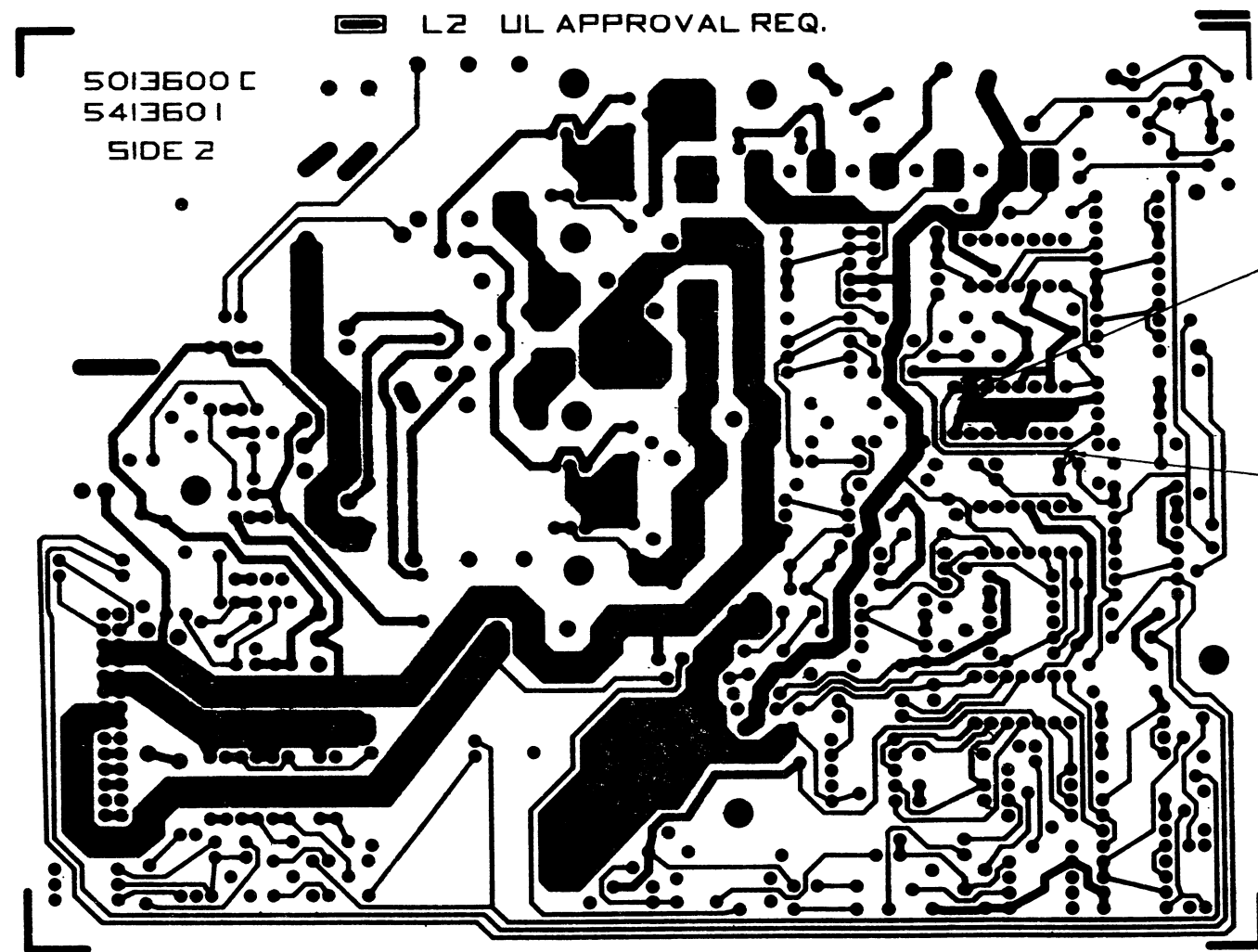
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REVISIONS		
CHK	CHANGE NO.	REV.

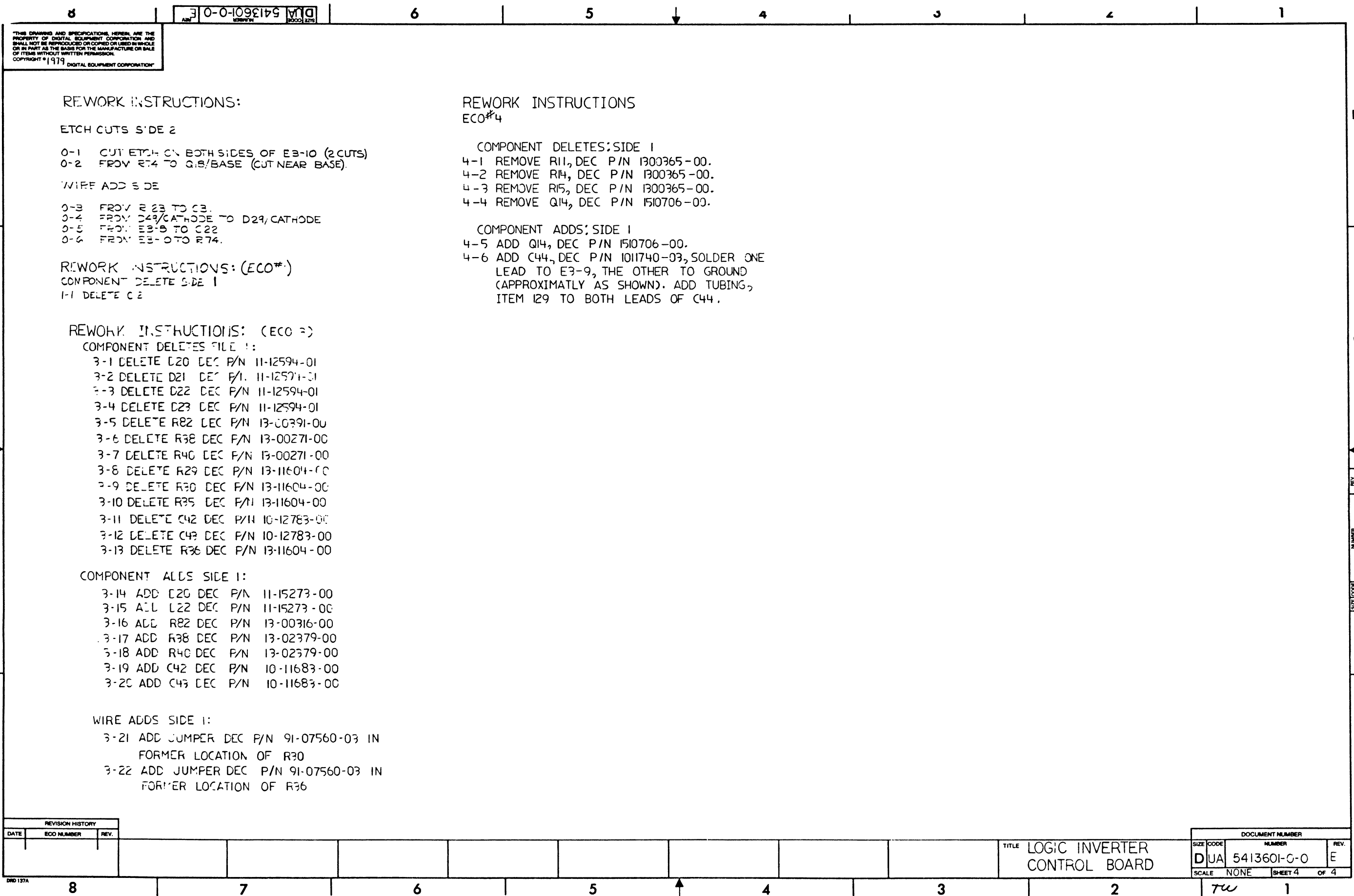
TITLE		LOGIC INVERTER CONTROL BOARD		SIZE CODE		NUMBER		REV.	
				DUA		5413601-0-0		E	
SCALE		2/1		SHEET		2		OF 4	
				DIST.					

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REVISIONS		
CHK	CHANGE NO.	REV

TITLE	LOGIC INVERTER CONTROL BOARD	SIZE CODE	D UA	NUMBER	5413601-0-0	REV.	E
SCALE	2/1	SHEET	3	OF	4	DIST.	



REWORK INSTRUCTIONS:

ETCH CUTS SIDE 2

- 0-1 CUT ETCH ON BOTH SIDES OF E3-10 (2 CUTS)
- 0-2 FROM R74 TO Q18/BASE (CUT NEAR BASE)

WIRE ADDS SIDE

- 0-3 FROM R23 TO C3
- 0-4 FROM D49/CATHODE TO D29/CATHODE
- 0-5 FROM E3-9 TO C22
- 0-6 FROM E3-0 TO R74

REWORK INSTRUCTIONS: (ECO#)

COMPONENT DELETE SIDE 1

- 1-1 DELETE C2

REWORK INSTRUCTIONS: (ECO#)

COMPONENT DELETES FILE 1:

- 3-1 DELETE D20 DEC P/N 11-12594-01
- 3-2 DELETE D21 DEC P/N 11-12594-01
- 3-3 DELETE D22 DEC P/N 11-12594-01
- 3-4 DELETE D23 DEC P/N 11-12594-01
- 3-5 DELETE R82 DEC P/N 13-00391-00
- 3-6 DELETE R38 DEC P/N 13-00271-00
- 3-7 DELETE R40 DEC P/N 13-00271-00
- 3-8 DELETE R29 DEC P/N 13-11604-00
- 3-9 DELETE R30 DEC P/N 13-11604-00
- 3-10 DELETE R35 DEC P/N 13-11604-00
- 3-11 DELETE C42 DEC P/N 10-12783-00
- 3-12 DELETE C43 DEC P/N 10-12783-00
- 3-13 DELETE R36 DEC P/N 13-11604-00

COMPONENT ADDS SIDE 1:

- 3-14 ADD D20 DEC P/N 11-15273-00
- 3-15 ADD D22 DEC P/N 11-15273-00
- 3-16 ADD R82 DEC P/N 13-00316-00
- 3-17 ADD R38 DEC P/N 13-02379-00
- 3-18 ADD R40 DEC P/N 13-02379-00
- 3-19 ADD C42 DEC P/N 10-11683-00
- 3-20 ADD C43 DEC P/N 10-11683-00

WIRE ADDS SIDE 1:

- 3-21 ADD JUMPER DEC P/N 91-07560-03 IN FORMER LOCATION OF R30
- 3-22 ADD JUMPER DEC P/N 91-07560-03 IN FORMER LOCATION OF R36

REWORK INSTRUCTIONS

ECO#4

COMPONENT DELETES: SIDE 1

- 4-1 REMOVE R11, DEC P/N 1300365-00.
- 4-2 REMOVE R14, DEC P/N 1300365-00.
- 4-3 REMOVE R15, DEC P/N 1300365-00.
- 4-4 REMOVE Q14, DEC P/N 1510706-00.

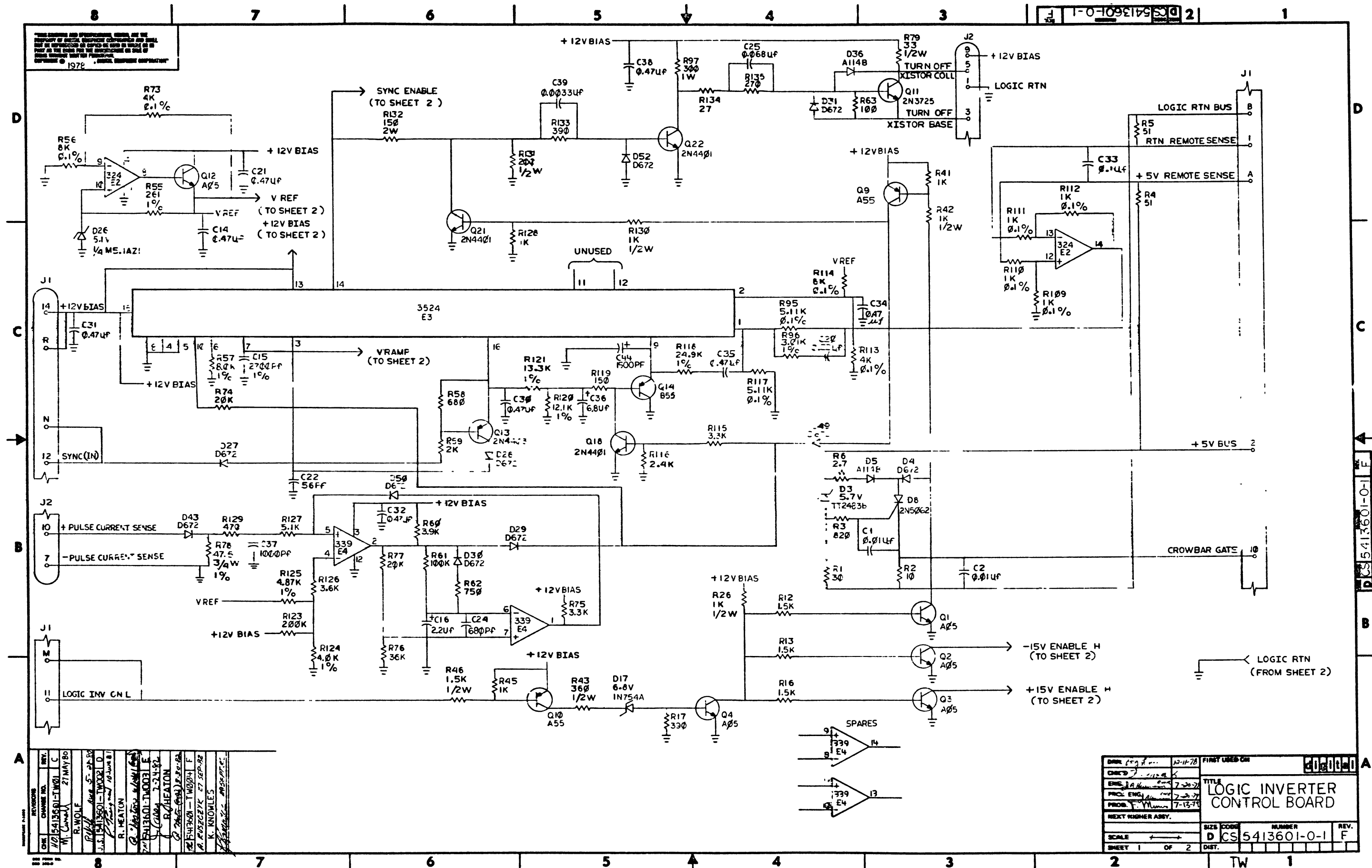
COMPONENT ADDS: SIDE 1

- 4-5 ADD Q14, DEC P/N 1510706-00.
- 4-6 ADD C44, DEC P/N 1011740-03, SOLDER ONE LEAD TO E3-9, THE OTHER TO GROUND (APPROXIMATELY AS SHOWN). ADD TUBING, ITEM 129 TO BOTH LEADS OF C44.

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE LOGIC INVERTER
CONTROL BOARD

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	5413601-C-0
SCALE		REV.
NONE		E
SHEET 4 OF 4		



LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5013600-0-0	5013600-00	DRILL & ETCH BD	1		
2	2		1010978-24	.01 MFD 50V 10% CER	6		C1-C6
3	3		1013280-00	680.0 MMF 1000V 5%200PPM MICA	2		C7,C8
4	4		1010279-01	.47 MFD 25V 20% CER	14	CONT	C9,C14,C18,C21,C30-C32,C34,C35, C38,C17,C26,C40,C41
5	5		1010978-32	.047 MFD 50V 10% CER	2		C10,C28
6	6		1011683-00	.022 MFD 50V 10% CER	3		C11,C42,C43
7	7		1014170-00	2700.0 MMF 100V 1% 70PPM MICA	1		C15
8	8		1002627-00	2.2MFD 20V 10% S.TANT	1		C16
9	9	BLANK		*** THIS ITEM IS NOT USED ***	-		
10	10		1010978-36	.1 MFD 50V 10% CER	3		C19,C33,C13
11	11		1010274-00	.22 MFD 50V +80-20% Z5U CER	1		C20
12	12		1000012-00	56.0 MMF 100V 5%200PPM MICA	1		C22
13	13		1013466-08	680.0 MMF 50V 10% X7R CER	1		C24
14	14		1000052-00	.068 MFD 100V 10% MYLR	1		C25
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-		
16	16		1011740-00	5600.0 MMF 50V 10% CER	2		C27,C29
17	17		1005306-00	6.8MFD 35V 10% S.TANT	1		C36
18	13		1013466-09	1000.0 MMF 50V 10% X7R CER	1		C37
19	19		1011740-01	3300.0 MMF 50V 10% CER	1		C39
20	20		1112595-01	A114B PIV=200 I= 1A	8		D1,D2,D5,D18,D19,D24,D25,D36
21	21		1111205-00	SCREENED VZ= 5.7 2% .40W	1		D3
22	22		1105275-00	D 672 TR= 15NS PIV= 60V SI	28	CONT	D4,D11,D12,D15,D16,D27-D34, D37-D50,D52
23	23		1110766-00	1N 52438 VZ= 18.0 5% .50W	2		D6,D14
24	24		1110968-00	2N 5062 SCR8100V I=.8A T092	3		D7-D9
25	25		1109991-00	1N 754A VZ= 6.8 5% .40W	1		D17
26	26		1115273-00	UES 1304 RECTIFIER 200V 6A	2		D20,D22
27	27		1105871-00	1/4MS.1A Z1 = 5.1 1% .25W N	1		D26
28	28	BLANK		*** THIS ITEM IS NOT USED ***	-		

REVISION HISTORY			BASIC PART NO: 5413601			DRN: J.LENT		DATE: 3-JAN-79		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: F.GERRY	DATE: 19-JUL-79		TITLE PARTS LIST					
	INITIAL	B	SECTION VARIATION INDEX					LOGIC INVERTER CONTROL BD					
	INITIAL	B	[A] CO										
RW	5413601-TW001	C	[B]		DES.ENG: J.A.HERRMANN	DATE: 19-JUL-79							
RH	5413601-TW002	D	[C]										
RH	5413601-TW003	E	[D]		RESP.ENG.: J.A.HERRMANN	DATE: 19-JUL-79		DOCUMENT NUMBER					
KK	5413601-TW004	F	[E]										
			[F]					SIZE CODE NUMBER REV					
			[H]										
			[J]		MFG.ENG.: F.MUNIZ	DATE: 19-JUL-79		K	PL	5413601-0-DBP		F	
			[K]		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #			
			[L]		D-UA-5413601-0-0			Z0400F.PLS		30			
			[M]										
			[N]										
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LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION			QTY PER VARIATION 00	REFERENCE DESIGNATOR
29	29		1211728-00	CONN,P+S	01SKT		14	J2,J3
30	30		1216112-01	PCB,HEADER	28POS(1X28)	.156CC 90D	1	J1
31	31		1302751-00	30.0	.25 W 5.0 *	CC	1	R1
32	32		1301317-00	10.0	.25 W 5.0 *	CC	1	R2
33	33		1301775-00	820.0	.25 W 5.0 *	CC	3	R3,R18,R23
34	34		1312928-00	51.0	.25 W 5.0 *	CC	2	R4,R5
35	35		1310382-00	2.70	1.0 W 5.0 *	CC	1	R6
36	36		1300364-00	1.0 K	.50 W 5.0 *	CC	7	R7,R8,R26,R42,R44,R103,R130
37	37		1300347-00	680.0	.50 W 5.0 *	CC	2	R9,R10
38	38		1300365-00	1.0 K	.25 W 5.0 *	CC	3	R41,R45,R128
39	39		1300391-00	1.50 K	.25 W 5.0 *	CC	8	R12,R13,R16,R85,R86,R98,R100,
								R101
40	40		1300309-00	390.0	.25 W 5.0 *	CC	2	R17,R133
41	41		1302377-00	39.0	.25 W 5.0 *	CC	2	R19,R22
42	42		1300229-00	100.0	.25 W 5.0 *	CC	3	R20,R24,R63
43	43		1300271-00	220.0	.25 W 5.0 *	CC	2	R21,R25
44	44		1305872-00	.10	5.0 W 3.0 *	WW	2	R27,R52
45	45		1301952-00	1.0 K	2.0 W 5.0 *	CC	2	R28,R32
46	46	BLANK		*** THIS	ITEM IS NOT USED ***		-	
47	47		1314023-00	47.0	2.0 W 5.0 *	CC	2	R31,R33
48	48		1309855-00	300.0	2.0 W 5.0 *	CC	1	R34
49	49		1301421-00	15.0	.25 W 5.0 *	CC	2	R37,R39
50	50		1302955-00	750.0	.25 W 1.0 *	RN55D-F10	1	R65
51	51		1302383-00	360.0	.50 W 5.0 *	CC	1	R43
52	52		1300394-00	1.50 K	.50 W 5.0 *	CC	1	R46
53	53		1303438-00	21.0 K	.25 W 1.0 *	RN55D-F10	1	R47
54	54		1300316-00	470.0	.25 W 5.0 *	CC	7	R49,R64,R83,R99,R104,R129,R82
55	55		1305405-00	24.90 K	.25 W 1.0 *	RN55D-F10	2	R50,R118
56	56		1305337-00	3.65 K	.25 W 1.0 *	RN55D-F10	1	R51
57	57		1312989-00	17.80 K	.25 W 1.0 *	RN55D-F10	2	R53,R54
58	58		1313151-00	3.60 K	.25 W 5.0 *	CC	1	R126
59	59		1302873-00	261.0	.25 W 1.0 *	RN55D-F10	1	R55
60	60		1305356-00	8.0 K	.25 W .10*	RN55C-B 5	2	R56,R114
61	61		1305129-00	8.0 K	.25 W 1.0 *	RN55D-F10	1	R57
62	62		1312930-00	5.10 K	.25 W 5.0 *	CC	5	R48,R66,R67,R90,R127
63	63		1300444-00	3.90 K	.25 W 5.0 *	CC	5	R60,R68,R69,R91,R94
64	64		1302456-00	100.0 K	.25 W 5.0 *	CC	1	R61
65	65		1301401-00	750.0	.25 W 5.0 *	CC	1	R62
66	66	BLANK		*** THIS	ITEM IS NOT USED ***		-	
67	67		1302391-00	20.0 K	.25 W 5.0 *	CC	2	R77,R74
68	68		1312452-00	3.74 K	.25 W 1.0 *	RN55D-F10	1	R70
69	69		1313344-00	75.0 K	.25 W 1.0 *	RN55D-F10	1	R88
70	70		1311320-00	90.90 K	.25 W 1.0 *	RN55D-F10	1	R72
71	71		1304728-00	4.0 K	.25 W .10*	RN55E-B 2	2	R73,R113
72	72		1300439-00	3.30 K	.25 W 5.0 *	CC	3	R75,R105,R115
73	73		1312932-00	36.0 K	.25 W 5.0 *	CC	1	R76
74	74		1301459-00	47.50	.75 W 1.0 *	RN65D-F10	1	R78
75	75		1300195-00	33.0	.50 W 5.0 *	CC	1	R79

D	I	G	I	T	A	L	TITLE	LOGIC INVERTER CONTROL BD	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV.
										K	PL	5413601-0-DBP	F

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
76	76		1305322-00	7.50 K .25 W 1.0 % RN55D-F10	7	R80,R81,R107,R108,R87,R102,R71
77	77		1302388-00	2.0 K .25 W 5.0 % CC	2	R59,R84
78	78		1305421-00	35.70 K .25 W 1.0 % RN55D-F10	1	R89
79	79		1305325-0C	8.25 K .25 W 1.0 % RN55D-F10	1	R92
80	80		1305127-00	4.0 K .25 W 1.0 % RN55D-F10	2	R93,R124
81	81		1305432-00	5.11 K .25 W .10% RN55E-B 2	2	R95,R117
82	82		1314041-00	3.01 K .25 W 1.0 % RN55D-F10	1	R96
83	83		1300292-00	300.0 1.0 W 5.0 % CC	1	R97
84	84		1304865-00	1.0 K .25 W .10% RN55E-B 2	4	R109-R112
85	85		1300250-00	150.0 .25 W 5.0 % CC	1	R119
86	86		1303313-00	12.10 K .25 W 1.0 % RN55D-F10	1	R120
87	87		1312565-00	13.30 K .25 W 1.0 % RN55D-F10	1	R121
88	88	BLANK		*** THIS ITEM IS NOT USED ***	-	
89	89	BLANK		*** THIS ITEM IS NOT USED ***	-	
90	90		1302381-00	200.0 .50 W 5.0 % CC	1	R131
91	91		1300257-00	150.0 2.0 W 5.0 % CC	1	R132
92	92		1301522-00	27.0 .25 W 5.0 % CC	1	R134
93	93		1301972-00	270.0 .25 W 5.0 % CC	1	R135
94	94		1510705-00	XA 05 NPN 500MW SI 60 50 P	5	Q1-Q4,Q12
95	95		1514271-01	D 44Q5 NPN 31W SI225 30	4	Q5-Q8
96	96		1510706-00	XA 55 PNP 500MW SI 60 50 P	4	Q9,Q10,Q16,Q20
97	97		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	1	Q11
98	98		1513490-00	2N 4403 PNP 350MW SI-40 30	2	Q13,Q19
99	99		1516121-00	MPS A92 PNP 625MW SI300 25	1	Q15
100	100		1513489-00	2N 4401 NPN 750MW SI 40 20	4	Q17,Q18,Q21,Q22
101	101		1505867-00	2N 4441 SCRD 50V & 8A	2	D10,D13
102	102		1616213-00	450.0 UH 4 A	2	L1,L2
103	103		1912108-00	339 VOLT CMPRTR,QUAD	2	E1,E4
104	104		1912107-00	324 OP AMP,QUAD	1	E2
105	105		1914250-00	3524 MODULATOR-REGULATING	1	E3
106	106		7422047-01	HEAT SINK DOUBLE	2	
107	107		1301424-00	680.0 .25 W 5.0 % CC	1	R58
108	108		9006039-01	SCREW,MACH PAN PHIL 8-	2	
109	109		9006660-00	WASHER,FLAT SST	4	
110	110		9006690-00	WASHER,HELICAL SPLIT SST	2	
111	111		1303177-00	2.40 K .25 W 5.0 % CC	1	R116
112	112		9006011-01	SCREW,MACH PAN PHIL 4-	4	
113	113		9009769-00	WASHER,RECTNGLR STEEL	4	
114	114		9006556-00	NUT,HEX 4-40X .264AF SS/N	4	
115	115		9006688-00	WASHER,HELICAL SPLIT SST	4	
116	116		9010128-00	SCREW,TAP PAN PHIL THD RL 4-	4	
117	117		9007201-00	TRANSIPADS #10253	1	C23
118	118		9008268-00	COMPOUND, THERMAL JOINT	A/R	
119	119		1314516-00	200.0 K .25 W 5.0 % CC	1	R123
120	120		1313592-00	4.87 K .25 W 1.0 % RN55D-F10	1	R125
121	121		9105740-55	WIRE(WRAP) 30AWG KYVAR UL14	A/R	
122	122	BLANK		*** THIS ITEM IS NOT USED ***	-	
123	123	BLANK		*** THIS ITEM IS NOT USED ***	-	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							LOGIC INVERTER CONTROL BD		K	PL	5413601-0-D2P	F

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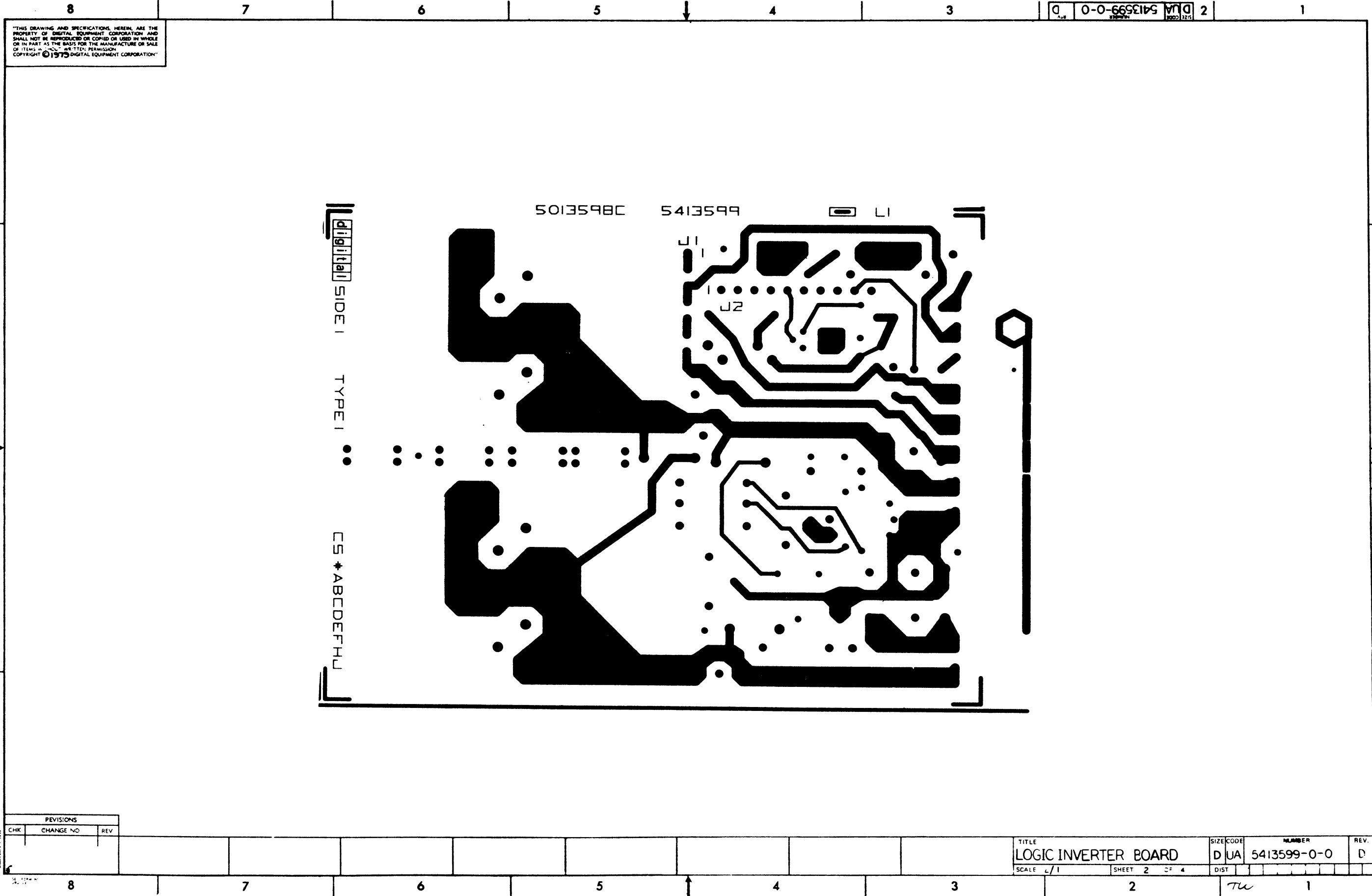
H01
P A R T S L I S T

SHEET A4 OF A4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
124	124		1313794-00	787.0 .25 W 1.0 % RN55D-F10	1	R106
125	125		1302379-00	75.0 .25 W 5.0 % CC	2	R38,R40
126	126		9107560-03	WIRE,BUSS 18AWG TIN BARE	A/R	
127	127		1510706-01	B 55 PNP 500MW SI 60 50	1	Q14
128	128		1011740-03	1500.0 MMF 50V 10% CER	1	C44
129	129		9107256-11	TUBING,TEFLON .027ID	A/R	

130 NOTE: ITEM #121; .52' IS USED.

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							LOGIC INVERTER CONTROL BD		K	PL	5413601-0-D8P	F

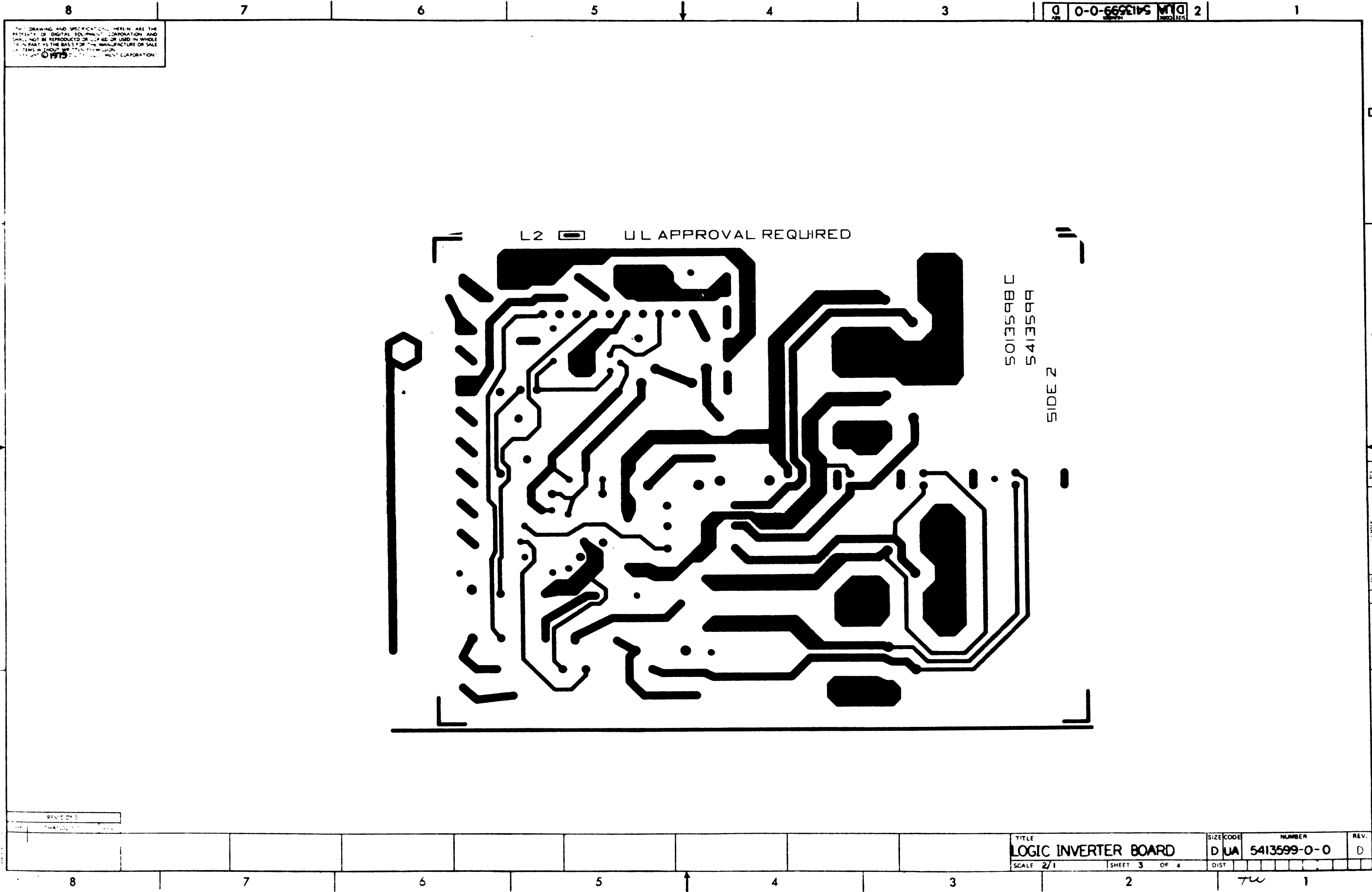


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REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE	CODE	NUMBER		REV.
LOGIC INVERTER BOARD		D	UA	5413599-0-0		D
SCALE 1/1		SHEET 2 OF 4		DIST		

TU



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REVISIONS	
REV.	DESCRIPTION

TITLE		SIZE CODE	NUMBER		REV.
LOGIC INVERTER BOARD		D UA	5413599-0-0		D
SCALE 2/1	SHEET 3 OF 4	DIST			

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0-0-66921-5

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DIGITAL EQUIPMENT CORPORATION

REWORK INSTRUCTION (ECO 1)

COMPONENT ADDS: SIDE 1

- 1-1 INSTALL R13 BY DRILLING ONE .055" HOLE AS SHOWN. (HOLE IS UNDERNEATH R13)
1-2 C5 AND R13 ARE CONNECTED BY TWISTING ONE LEAD OF R13 WITH ONE LEAD OF C5 AND SOLDERING. THE OTHER LEAD OF R13 IS TACK SOLDERED TO THE ETCH ON: SIDE 2 LEADING TO THE CATHODE OF D5. THE OTHER LEAD OF C5 IS CONNECTED TO THE ANODE OF D5. (SEE VIEW D-D)
1-3 R12 AND C4 ARE CONNECTED BY TWISTING ONE LEAD OF R12 WITH ONE LEAD OF C4 AND SOLDERING. THE OTHER LEAD OF R12 IS CONNECTED TO THE ANODE OF D6. THE OTHER LEAD OF C4 IS TACK SOLDERED TO J1-1 AND 2. (SEE VIEW E-E)

REWORK INSTRUCTION (ECO 3)

COMPONENT DELETES: SIDE 1

- 3-1 REMOVE D10 DEC. PT. NO. 1112594-02
3-2 REMOVE R6 DEC. PT. NO. 1314172-01
3-3 REMOVE Q2
3-4 REMOVE Q3 } DEC. PT. NO. 1514195-00
3-5 REMOVE Q4 }
3-6 REMOVE Q5 }
3-7 REMOVE L4 DEC. PT. NO. 1112595-01
3-8 REMOVE L12 }
3-9 REMOVE D14 } DEC. PT. NO. 1112595-00
3-10 REMOVE D15 }
3-11 REMOVE D16 }
3-12 REMOVE D17 } DEC. PT. NO. 1114435-00
3-13 REMOVE D18 }
3-14 REMOVE D19 }
3-15 REMOVE D20 }

COMPONENT ADDS: SIDE 1

- 3-16 ADD D10 DEC. PT. NO. 1115273-01
3-17 ADD R6 DEC. PT. NO. 1305260-00 (SEE 3-18)
3-18 ADD SPACE ITEM 4" DEC. PT. NO. 9009798-01
TO EACH LEAD OF R6
3-19 ADD D4 DEC. PT. NO. 1115273-00
3-20 ADD D12 }
3-21 ADD D14 } DEC. PT. NO. 1105769-01
3-22 ADD D16 }
3-23 ADD D19 }
3-24 ADD L13 } DEC. PT. NO. 1105796-01
3-25 ADD D15 } REVERSE POLARITY FOR
3-26 ADD D17 } THESE 4 PARTS WHEN
3-27 ADD D18 } ASSEMBLING
3-28 ADD Q2 }
3-29 ADD Q3 } DEC. PT. NO. 1517365-00
3-30 ADD Q4 }
3-31 ADD Q5 }

REVISION HISTORY

DATE	ECO NUMBER	REV

TITLE
LOGIC INVERTER BOARD

DOCUMENT NUMBER		
REV. CODE	NUMBER	REV.
D	UA 54-13599-0-0	D
SCALE 2/1 SHEET 4 OF 4		

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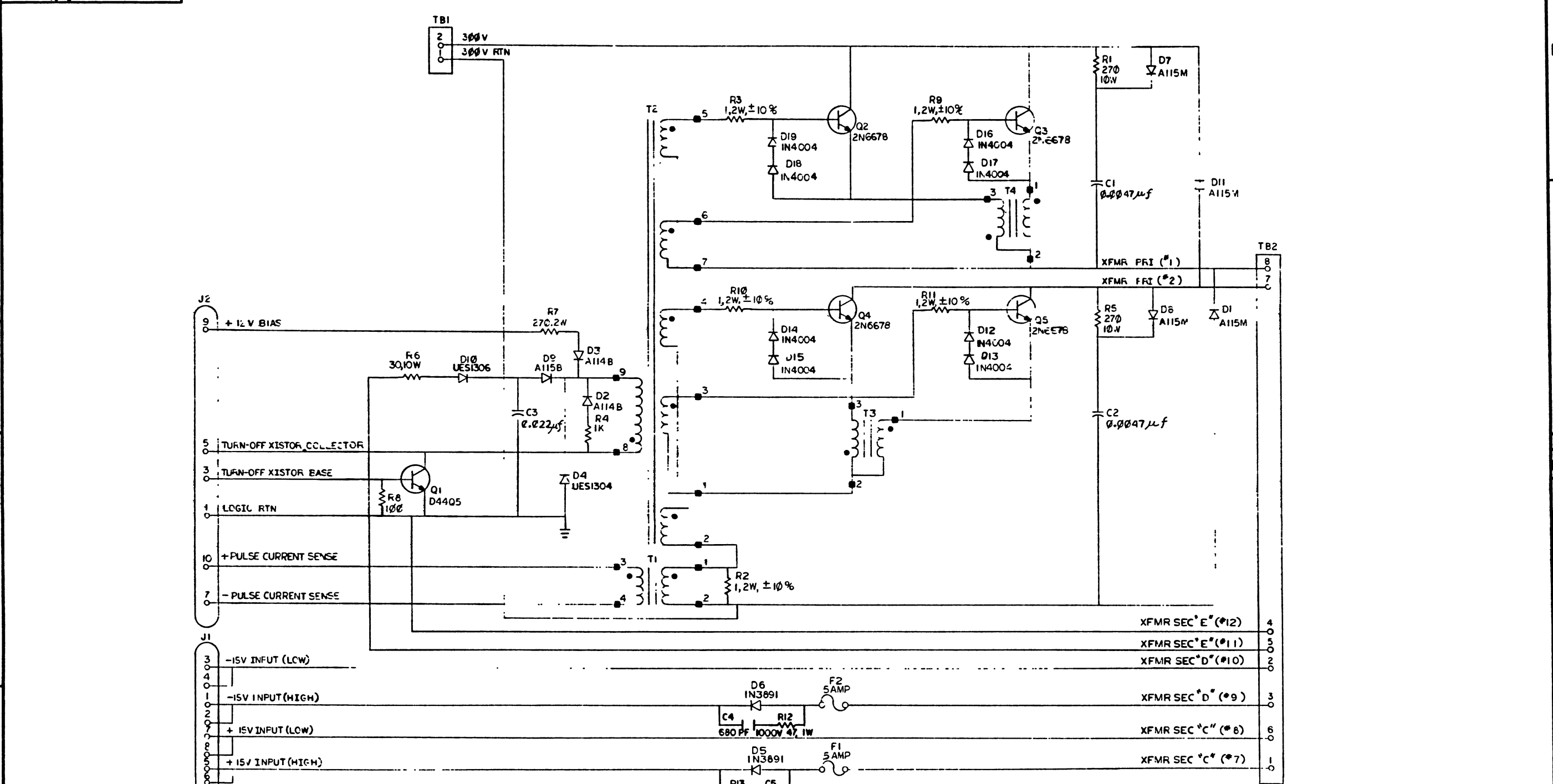
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TW 1

THIS DRAWING IS UNCLASSIFIED
DATE 10-13-2011 BY 60322
REASON: EXECUTIVE ORDER 13526, SECTION 1.4



REV.	DATE	BY	CHKD.
1	10/13/2011	60322	60322
2	10/13/2011	60322	60322
3	10/13/2011	60322	60322
4	10/13/2011	60322	60322
5	10/13/2011	60322	60322
6	10/13/2011	60322	60322
7	10/13/2011	60322	60322
8	10/13/2011	60322	60322
9	10/13/2011	60322	60322
10	10/13/2011	60322	60322
11	10/13/2011	60322	60322
12	10/13/2011	60322	60322
13	10/13/2011	60322	60322
14	10/13/2011	60322	60322
15	10/13/2011	60322	60322
16	10/13/2011	60322	60322
17	10/13/2011	60322	60322
18	10/13/2011	60322	60322
19	10/13/2011	60322	60322
20	10/13/2011	60322	60322

DATE	10-13-2011	BY	60322
CHKD.	60322	DATE	10-13-2011
ENG.	60322	DATE	10-13-2011
PROJ. ENG.	60322	DATE	10-13-2011
PROD.	60322	DATE	10-13-2011
NEXT HIGHER ASBY.	60322	DATE	10-13-2011
TITLE LOGIC INVERTER BOARD			
SCALE	1:1	SIZE	D
SHEET	1	OF	1
CS 5413599-0-1		E	

SHEET A1 OF 42

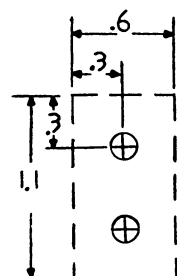
REVISION HISTORY			BASIC PART NO: 5413599		DRN: K.FRIEDGEN		DATE: 20-JUL-79		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: F.GERRY		DATE: 20-JUL-79		TITLE		PARTS LIST	
---	INITIAL	B	SECTION VARIATION INDEX		CHK'D: F.GERRY		DATE: 20-JUL-79		LOGIC INVERTER BD			
RR	5413599-TW001	C	[A] 00									
RH	5413599-TW002	D	[B]		DES.ENG: J.A.HERRMANN		DATE: 20-JUL-79					
RH	5413599-TW002	D	[C]									
KK	5413599-TW003	E	[D]		RESP.ENG.: J.A.HERRMANN		DATE: 20-JUL-79		DOCUMENT NUMBER			
			[E]									
			[F]		MFG.ENG.: F.MUNIZ		DATE: 20-JUL-79		K PL		5413599-0-DBP E	
			[H]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[J]		D-UA-5413559-0-0				20399E.PLS		20	
			[K]									
			[L]									
			[M]									
			[N]									

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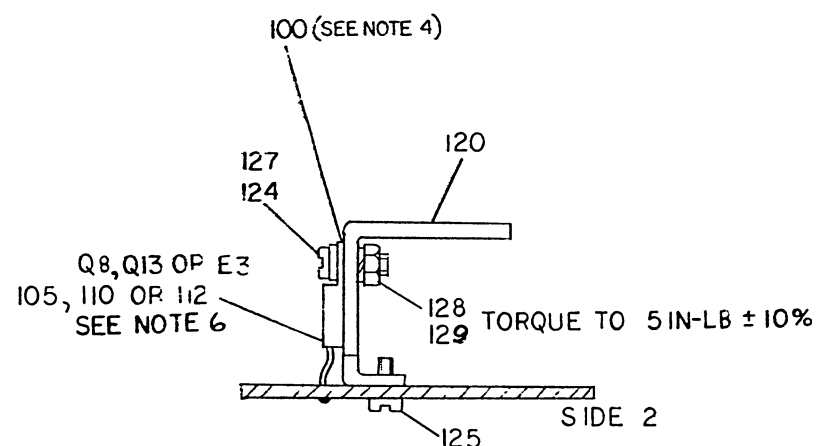
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		9006025-01	SCREW,MACH PAN PHIL 6-	8	
32	32		9006556-00	NUT,HEX 4-40X .264AF SS/N	1	
33	33		9006656-00	WASHER,FLAT STEEL	4	
34	34		9006688-00	WASHER,HELICAL SPLIT SST	1	
35	35		9006735-00	EYELET,FUNNEL 0.0590DX0.187	4	
36	36		9007801-00	WASHER,HELICAL SPLIT SST	8	
37	37		9007906-00	WASHER,HELICAL SPLIT STEEL	2	
38	38		9009005-00	NUT,HEX 10-32X .246AF SS/N	2	
39	39		9009676-00	TERM,SOLDER BARRIER STR	4	
40	40		9009769-00	WASHER,RECTNGLR STEEL	1	
41	41		9010128-00	SCREW,TAP PAN PHIL THD RL 4-	3	
42	42		9107560-03	WIRE,BUSS 18AWG TIN BARE	A/R	
43	43		9008268-00	COMPOUND, THERMAL JOINT	A/R	
44	44		1013280-00	680.0 MMF 1000V 5%200PPM MICA	2	C4,C5
45	45		1302199-00	47.0 1.0 W 5.0 % CC	2	R12,R13
46	46		1115273-01	UES1306 RECTIFIER 400V 5V 50NS	1	D10
47	47		9009798-01	SPACER,CLEAR HOLE RND CERAM .07	2	
48	48		1115273-00	UES 1304 RECTIFIER 200V 6A	1	D4

49 NOTE: ITEM #42; .19' IS USED.

D	I	G	I	T	A	L	TITLE	LOGIC INVERTER BD	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										k	PL	5413599-0-DBP	E



FOR -00 DIODE IS USED
FOR -YA JUMPER IS USED
FOR YB JUMPER IS USED
IN PLACE OF D38 ONLY.



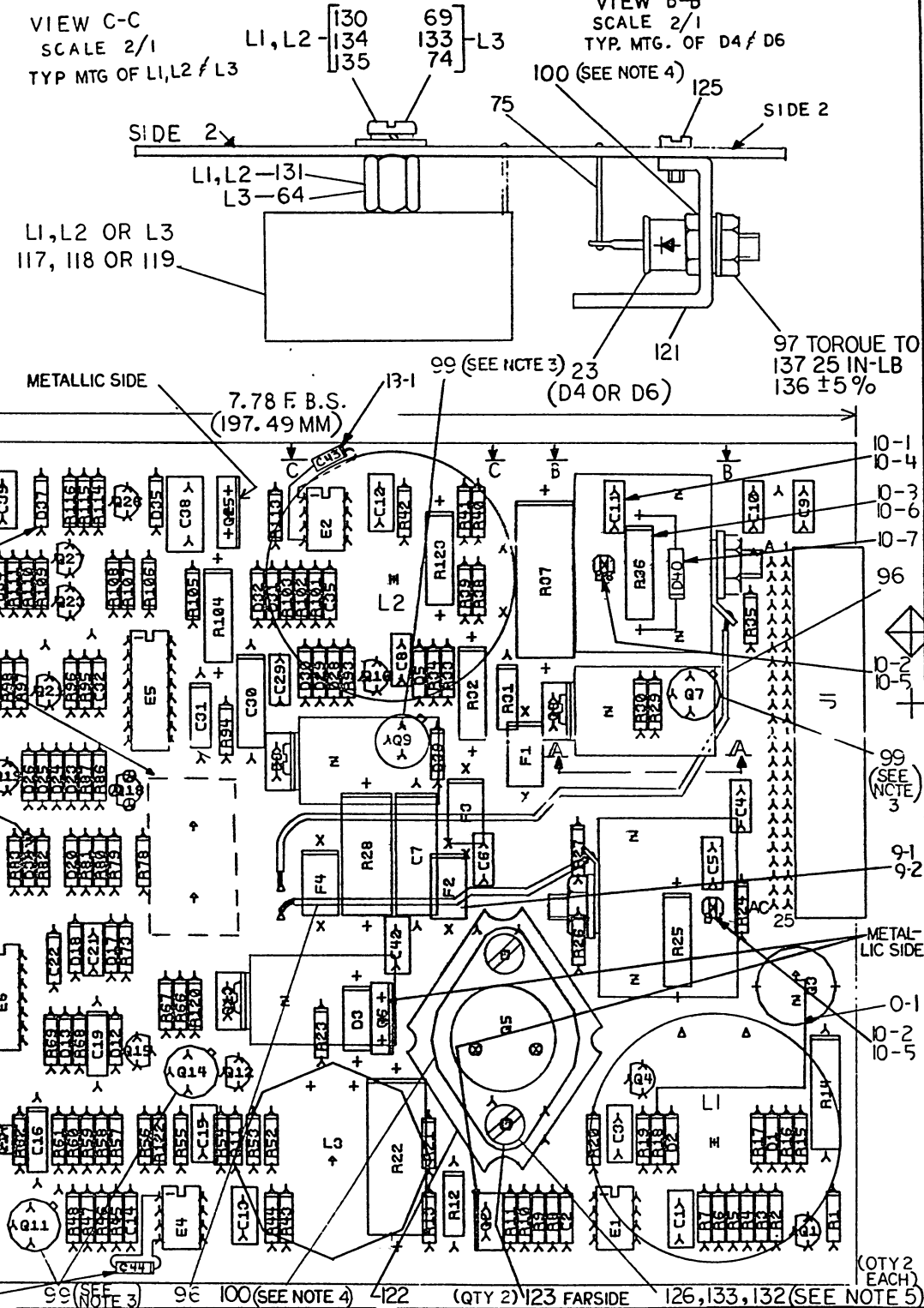
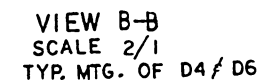
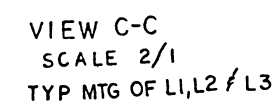
NOTES:

1. R14 / R37 MUST BE RAISED .125" TO .150",
2. D3 MUST BE RAISED .05" TO .10",
3. USE TRANSIPADS (ITEM 99) UNDER Q7, Q9, Q11 / Q14
4. USE THERMAL COMPOUND (ITEM 100)
BETWEEN E3, Q5, Q8, Q13, D4, D6 / HEAT SINK.

STEP #	↑ Y AXIS	6.025	STEP	1	TIMES
REPEAT	→ X AXIS	7.900	STEP	1	TIMES

CHRG	CHANGE NO	REV
727	5413507-TWS	E
727	R.WOLF	
727	B. J. Wolf	
727	5413367-TWS	F
727	SCHWARTZ, R. M.	
727	K. KNOWLES	
727	5413607-TWS	H
727	A. A. R. SCHWARTZ, R. M. & J. S.	
727	C. SKOOLICAS	
727	5413607-TWS	J
727	A. A. R. SCHWARTZ, R. M. & J. S.	
727	C. SKOOLICAS	
727	5413607-TWS	K
727	A. A. R. SCHWARTZ, R. M. & J. S.	
727	K. KNOWLES	
727	5413607-TWS	L

5. TOLERANCE TO 8IN LB $\pm$ 10%
6. Q8,Q13,E3,D4,D6 MUST BE MOUNTED TO HEAT SINKS BEFORE BEING ATTACHED TO P.C.B.
7. MASK THIS AREA ON SIDE 2 ONLY, KEEP FREE OF SOLDER.



(OTY 2
EACH

SIGNATURES		DATE	
DRN. P. RICHARD TELLIER		12-27-77	
CHK'D. <i>Mark G. Goff</i>		2-5-80	
MECH. ENG. <i>Bob Wolf</i> RWA		11-9-80	
PROJ. ENG. <i>Bob Wolf</i> NWA		10-5-80	
PROD. <i>John G. Goff</i>		10-7-80	
SCALE 2/1		TITLE	
SHT. 1 OF 2		MEMORY REGULATOR	
NEXT HIGHER REV. B-D-5413607-0		SIZE CODE NUMBER REV	
		b UA 5413607-0-0 k	

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6-0-2092145 V10

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D

D

REWORK INSTRUCTION

WIRE ADD SIDE 1
0-1 FROM R18 (WRAP WIRE AROUND COMPONENT LEAD) TO Q3 CATHODE (GND) (USE ITEM 144)

REWORK INSTRUCTION

ECO # 9
COMPONENT DELETE SIDE 1
9-1 DELETE F2 DEC P/N 12-05747-00
COMPONENT ADD SIDE 1
9-2 ADD F2 DEC P/N 12-10929-09

C

C

REWORK INSTRUCTIONS

ECO # 10
COMPONENT DELETES SIDE 1
10-1 DELETE C11, DEC P/N 1001610-01
10-2 DELETE D4, D6, DEC P/N 1110491-01
10-3 DELETE R36, DEC P/N 1300171-00
COMPONENT ADDS SIDE 1
10-4 ADD C11, DEC P/N 1012784-00
10-5 ADD D4, D6, DEC P/N 1116645-03
10-6 ADD R36, DEC P/N 1316575-00
10-7 ADD D40, DEC P/N 1114893-00 ACROSS R36 CATHODE TO END NEAR Q7.

B

B

REWORK INSTRUCTIONS

ECO # 13
COMPONENT ADD SIDE 1
13-1 ADD C43 DEC P/N 1001610-01 FROM E2-2 TO E2-4 (GROUND)
13-2 ADD C44 DEC P/N 1001610-01 FROM E4-2 TO E4-4 (GROUND)

A

A

REVISION HISTORY		
DATE	ECO NUMBER	REV

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	5413607-0-0
SCALE		SHEET 2 OF 2

TITLE
MEMORY REGULATOR

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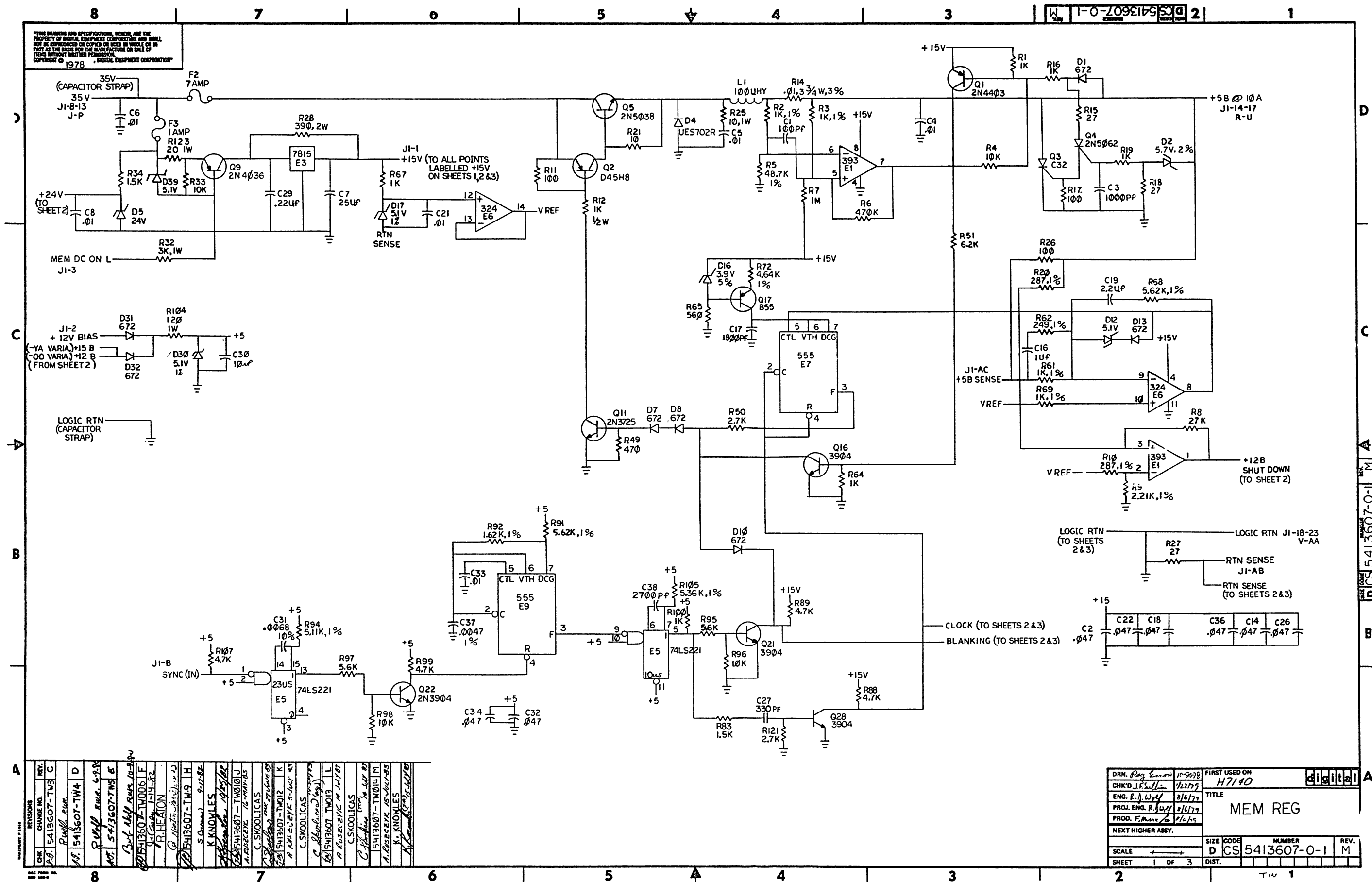
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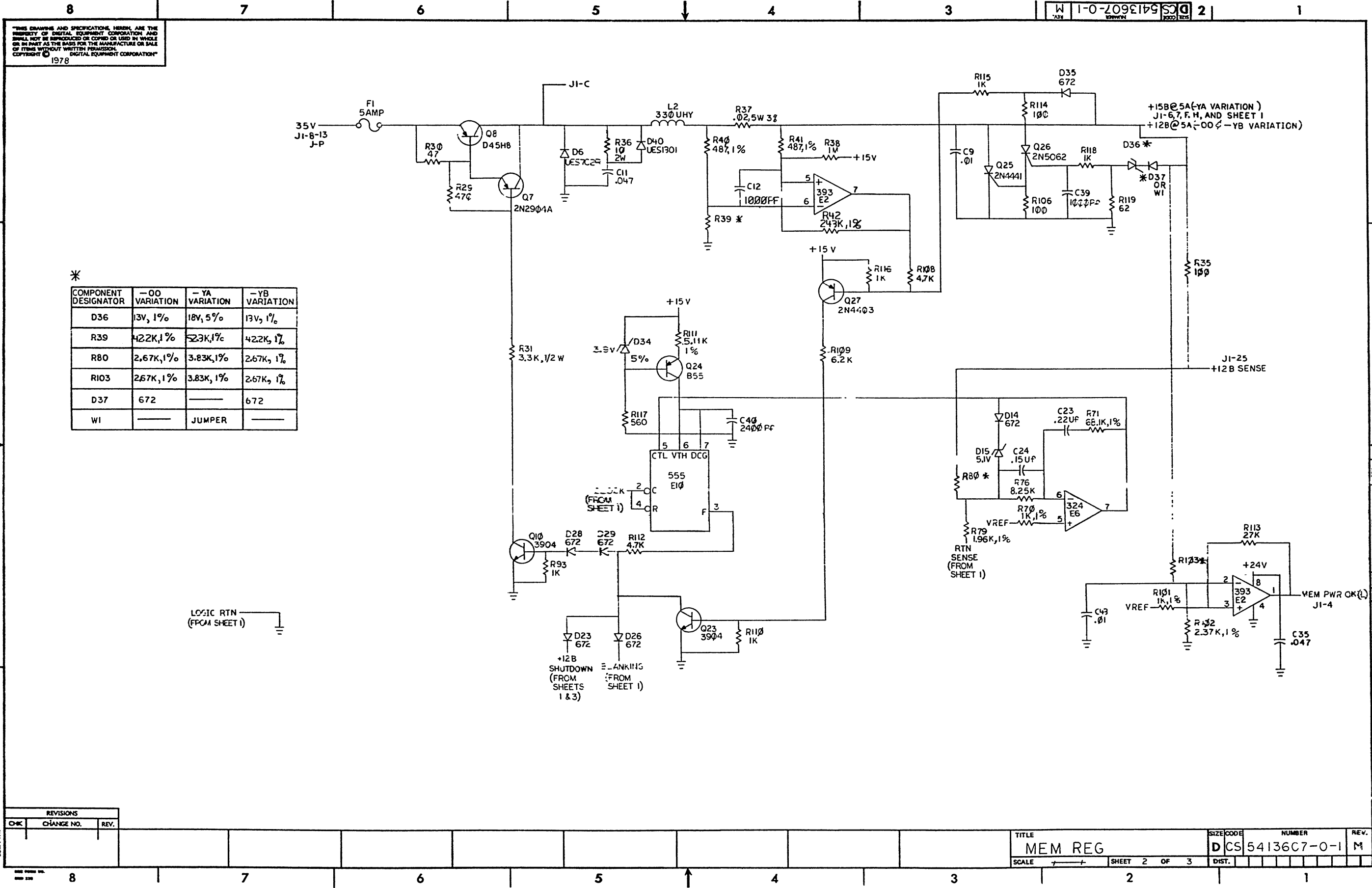
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tw





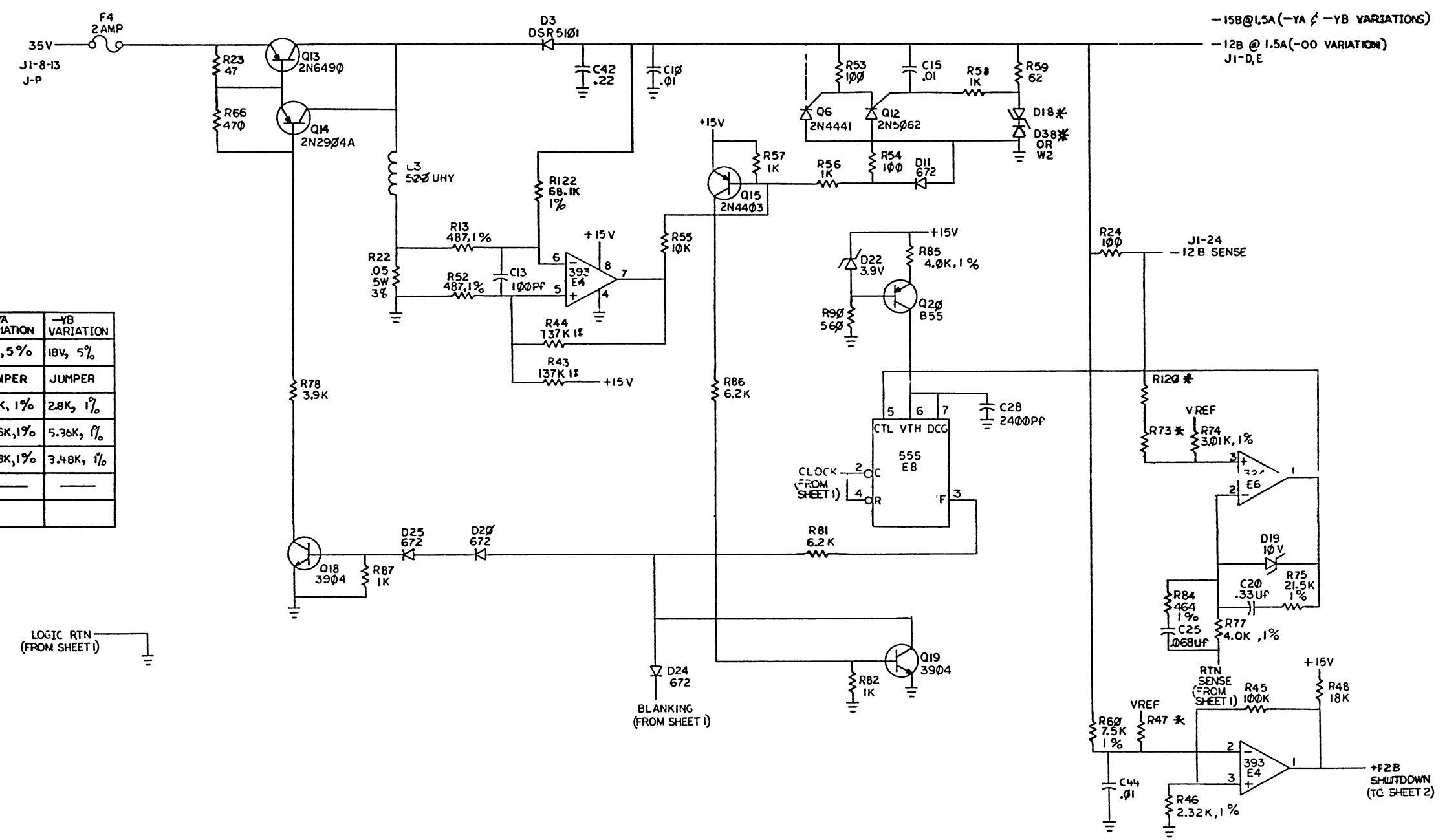
*

COMPONENT DESIGNATOR	-00 VARIATION	-YA VARIATION	-YB VARIATION
D36	13V, 1%	18V, 5%	13V, 1%
R39	422K, 1%	523K, 1%	422K, 1%
R80	2.67K, 1%	3.83K, 1%	2.67K, 1%
R103	2.67K, 1%	3.83K, 1%	2.67K, 1%
D37	672		672
W1		JUMPER	

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*

COMPONENT DESIGNATOR	-00 VARIATION	-YA VARIATION	-YB VARIATION
D18	13V, 1%	18V, 5%	18V, 5%
W2	—	JUMPER	JUMPER
R47	3.48K, 1%	2.8K, 1%	2.8K, 1%
R73	5.62K, 1%	5.36K, 1%	5.36K, 1%
R120	1.47K, 1%	3.48K, 1%	3.48K, 1%
D38	672	—	—



REVISIONS		
CHK	CHANGE NO.	REV.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION			REFERENCE DESIGNATOR
					00	YA	YB	
1	1	D-MD-5013606-0-0	5013606-00	DRILL & ETCH BD	1	1	1	
2	2		1004813-00	10 MFD 20V 10% S.TANT	1	1	1	C30
3	3		1000042-00	1000.0 MMF 100V 5%200PPM MICA	3	3	3	C3,C39,C12
4	4		1000052-00	.068 MFD 100V 10% MYLR	1	1	1	C25
5	5		1000060-00	6800.0 MMF 200V 10% MYLR	1	1	1	C31
6	6		1000075-00	25 MFD 25V +75-10% AL EL	1	1	1	C7
7	7	SEE NOTE #157	1001610-01	.01 MFD50/100V +80-20% DISC	11	11	11	C4-C6,C8-C10,C21,C33,C15,C43,C44
8	8		1001776-00	1 MFD 35V 10% S.TANT	1	1	1	C16
9	9		1001636-00	2400.0 MMF 100V 5%200PPM MICA	2	2	2	C28,C40
10	10		1014170-00	2700.0 MMF 100V 1% 70PPM MICA	1	1	1	C38
11	11		1002627-00	2.2MFD 20V 10% S.TANT	1	1	1	C19
12	12		1005328-00	.33 MFD 20V 10% S.TANT	1	1	1	C20
13	13		1009312-00	.0047 MFD 100V 1% MYLR	1	1	1	C37
14	14		1010274-01	.22 MFD 50V +80-20% Z5U CER	1	1	1	C29
15	15		1011740-02	1800.0 MMF 50V 10% CER	1	1	1	C17
16	16		1011895-00	.15 MFD 35V 10% S.TANT	1	1	1	C24
17	17		1012784-00	.047 MFD 50V +80-20% CER	10	10	10	C2,C14,C18,C22,C26,C32,C34-C36,C11
18	18		1100122-00	VZ= 3.9 5% 400 MW 1N748A	3	3	3	D16,D22,D34
19	19		1105275-00	PIV= 60 IO=300 MA -15NS	19	-	-	D1,D7,D8,D10,D11,D13,D14,D20,D23-D26,D28,D29,D31,D32,D35,D37,D38
			CONT		-	17	-	D1,D7,D8,D10,D11,D13,D14,D20,D23-D26,D28,D29,D31,D32,D35
			CONT		-	-	18	D1,D7,D8,D10,D11,D13,D14,D20,D23-D26,D28,D29,D31,D32,D35,D37
20	20		1100125-00	VZ= 10.0 5% 400 MW 1N758A	1	1	1	D19
21	21		1105871-00	VZ= 5.15 1% 250 MW	3	3	3	D17,D30,D39
22	22		1118411-00	VZ= 13.0 1% 500 MW 1N5243	2	-	-	D18,D36
			CONT		-	-	1	D36

REVISION HISTORY			BASIC PART NO: 5413607			DRN: J.FERGUSON		DATE: 06-AUG-80		DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: J.FERGUSON	DATE: 06-AUG-80		TITLE PARTS LIST					
---	TW005	H	SECTION.VARIATION INDEX		DES.ENG: B.WOLF	DATE: 06-AUG-80		MEMORY REG					
MS	5413607-TW006	J	[A]	00,YA,YB	RESP.ENG.: B.WOLF	DATE: 06-AUG-80		DOCUMENT NUMBER					
KK	5413607-TW009	K	[B]		MFG.ENG.: P.WAITKUS	DATE: 06-AUG-80		SIZE	CODE	NUMBER		REV	
CS	5413607-TW010	L	[C]		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:		K	PL	5413607-0-DBP		P	
CS	5413607-TW012	M	[D]		D-UA-5413607-0-0	B-DD-5413607-0-0		FILE NAME:		Z0403P.PLS		EDIT #	
CS	5413607-TW013	N	[E]									5	
KK	5413607-TW014	P	[F]										
			[H]										
			[J]										
			[K]										
			[L]										
			[M]										
			[N]										
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LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION			REFERENCE DESIGNATOR
					00	YA	YB	
23	23		1116645-03	RECT,ULTRA FAST PIV= 100 IO=25.0	2	2	2	D4,D6
24	24		1110713-00	VZ= 5.1 2% 400 MW 1N751	2	2	2	D12,D15
25	25		1110856-00	VZ= 24.0 5% 400 MW 1N970B	1	1	1	D5
26	26		1111205-00	VZ= 5.7 2% 400 MW	1	1	1	D2
27	27		1114602-00	RECT,ULTRA FAST PIV= 100 IO= 4.0	1	1	1	D3
28	28		1110968-00	SCR PIV= 100 IO= .80A 2N5062	3	3	3	Q4,Q12,Q26
29	29		1010978-40	.22 MFD 50V 10% CER	2	2	2	C23,C42
30	30		1210929-02	FUSE, SUB-MINI 1.000A, 125V, A	1	1	1	F3
31	31		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	1	1	F1
32	32		1216112-03	PCB,HEADER 50POS(1X50).156CC 90D	1	1	1	J1
33	33		1305127-00	4.0 K .25 W 1.0 % RN55D-F10	2	2	2	R77,R85
34	34		1304856-00	4.64 K .25 W 1.0 % RN55D-F10	1	1	1	R72
35	35		1304854-00	5.11 K .25 W 1.0 % RN55D-F10	2	2	2	R94,R111
36	36		1300391-00	1.50 K .25 W 5.0 % CF	2	2	2	R34,R83
37	37		1300316-00	470.0 .25 W 5.0 % CF	3	3	3	R29,R49,R66
38	38		1300447-00	4.70 K .25 W 5.0 % CF	6	6	6	R99,R107,R112,R88,R89,R108
39	39		1300229-00	100.0 .25 W 5.0 % CF	9	9	9	R11,R17,R24,R26,R35,R53,R54, CONT R106,R114
40	40		1301317-00	10.0 .25 W 5.0 % CF	1	1	1	R21
41	41		1300364-00	1.0 K .50 W 5.0 % CF	1	1	1	R12
42	42		1300171-00	10.0 1.0 W 5.0 % CC	1	1	1	R25
43	43		1313014-00	.01 3.75 W 3.0 % WW	1	1	1	R14
44	44		1301864-00	390.0 2.0 W 5.0 % CC	1	1	1	R28
45	45		1300479-00	10.0 K .25 W 5.0 % CF	5	5	5	R4,R33,R55,R96,R98
46	46		1309595-00	1.0 M .25 W 5.0 % CF	2	2	2	R7,R38
47	47		1303114-00	1.0 K .25 W 1.0 % RN55D-F10	6	6	6	R2,R3,R61,R69,R70,R101
48	48		1313842-00	48.70 K .25 W 1.0 % RN55D-F10	1	1	1	R5
49	49		1300365-00	1.0 K .25 W 5.0 % CF	16	16	16	R1,R16,R19,R56-R58,R64,R67,R82, CONT R87,R93,R100,R110,R115,R116,R118
50	50		1301522-00	27.0 .25 W 5.0 % CF	3	3	3	R15,R18,R27
51	51		1305114-00	3.48 K .25 W 1.0 % RN55D-F10	1	-	-	R47
			CONT		-	1	1	R120
52	52		1301890-00	560.0 .25 W 5.0 % CF	3	3	3	R65,R90,R117
53	53		1300426-00	2.70 K .25 W 5.0 % CF	2	2	2	R50,R121
54	54		1211751-00	FUSE, SUB-MINI, 2.000A, 125V, A	1	1	1	F4
55	55		1305128-00	5.62 K .25 W 1.0 % RN55D-F10	3	-	-	R68,R73,R91
			CONT		-	2	-	R68,R91
			CONT		-	-	1	R68
56	56		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	1	1	R45
57	57		1309787-00	249.0 .25 W 1.0 % RN55E-F 2	1	1	1	R62
58	58		1310876-03	.05 5.0 W 3.0 % WW	1	1	1	R22
59	59		1305124-00	287.0 .25 W 1.0 % RN55D-F10	2	2	2	R10,R20
60	60		1310631-00	2.21 K .25 W 1.0 % RN55D-F10	1	1	1	R9
61	61		1313341-00	5.36 K .25 W 1.0 % RN55D-F10	1	-	-	R105
			CONT		-	2	2	R105,R73
62	62		1304862-00	1.62 K .25 W 1.0 % RN55D-F10	1	1	1	R92
63	63		1300202-00	47.0 .25 W 5.0 % CF	2	2	2	R23,R30
64	64		9006801-00	SPACER,CLEAR HOLE HEX ALUM 6	1	1	1	

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION			REFERENCE DESIGNATOR
					00	YA	YB	
65	65		1311845-00	487.0 .25 W 1.0 % RN55D-F10	4	4	4	R13,R40,R41,R52
66	66		1315436-00	52.30 K .25 W 1.0 % RN55D-F10	-	1	-	R39
67	67		1310876-00	.02 5.0 W 3.0 % WW	1	1	1	R37
68	68		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1	1	1	R42
69	69		9006026-01	SCREW,MACH PAN PHIL 6-	1	1	1	
70	70		1300440-00	3.30 K .50 W 5.0 % CF	1	1	1	R31
71	71		1312929-00	62.0 .25 W 5.0 % CF	2	2	2	R59,R119
72	72		1305252-00	68.10 K .25 W 1.0 % RN55D-F10	2	2	2	R71,R122
73	73		1305325-00	8.25 K .25 W 1.0 % RN55D-F10	1	1	1	R76
74	74		9006653-00	WASHER,FLAT STEEL	1	1	1	
75	75		9107560-03	WIRE,BUSS 18AWG TIN BARE	A/R	A/R	A/R	
76	76		1305346-00	27.0 K .25 W 5.0 % CF	2	2	2	R8,R113
77	77		1310634-00	2.67 K .25 W 1.0 % RN55D-F10	2	-	2	R80,R103
78	78		1310632-00	2.37 K .25 W 1.0 % RN55D-F10	1	1	1	R102
79	79		1301874-00	5.60 K .25 W 5.0 % CF	2	2	2	R95,R97
80	80		1300444-00	3.90 K .25 W 5.0 % CF	1	1	1	R78
81	81	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	
82	82		1303155-00	21.50 K .25 W 1.0 % RN55D-F10	1	1	1	R75
83	83		1314041-00	3.01 K .25 W 1.0 % RN55D-F10	1	1	1	R74
84	84		1312931-00	6.20 K .25 W 5.0 % CF	4	4	4	R51,R81,R86,R109
85	85		1000016-00	100.0 MMF 100V 5%200PPM MICA	2	2	2	C1,C13
86	86		1304833-00	1.96 K .25 W 1.0 % RN55D-F10	1	1	1	R79
87	87		1305322-00	7.50 K .25 W 1.0 % RN55D-F10	1	1	1	R60
88	88		1312545-00	2.32 K .25 W 1.0 % RN55D-F10	1	1	1	R46
89	89		1300433-00	3.0 K 1.0 W 5.0 % CC	1	1	1	R32
90	90		1302398-00	470.0 K .25 W 5.0 % CF	1	1	1	R6
91	91		1000023-00	330.0 MMF 100V 5%200PPM MICA	1	1	1	C27
92	92		1302465-00	18.0 K .25 W 5.0 % CF	1	1	1	R48
93	93		1303047-00	464.0 .25 W 1.0 % RN55D-F10	1	1	1	R84
94	94		1305422-00	137.0 K .25 W 1.0 % RN55D-F10	2	2	2	R43,R44
95	95		1301838-00	120.0 1.0 W 5.0 % CC	1	1	1	R104
96	96		9107370-00	WIRE, 14AWG19/.0147IPVC 150V	A/R	A/R	A/R	
97	97		9007928-00	TERM,RING #10STUD CRIMP 14-1	2	2	2	
98	98	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	
99	99		9007201-00	PAD,MOUNTING,COMPONENT	4	4	4	
100	100		9008268-00	COMPOUND, THERMAL JOINT	A/R	A/R	A/R	
101	101		1510928-00	SCR PIV= 100 IO=25.00A	1	1	1	Q3
102	102		1505867-00	SCR PIV= 50 IO= 8.00A 2N4441	2	2	2	Q6,Q25
103	103		1305108-00	1.47 K .25 W 1.0 % RN55D-F10	1	-	-	R120
104	104		1510969-00	2N 5038 NPN 140WC SI 90 50 Y	1	1	1	Q5
105	105		1510708-00	D 45H8 PNP 50WT SI 60 60 Y	2	2	2	Q2,Q8
106	106		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	1	1	1	Q11
107	107		1510706-01	B 55 PNP 500MW SI 60 50	3	3	3	Q17,Q20,Q24
108	108		1513490-00	2N 4403 PNP 350MW SI-40 30	3	3	3	Q1,Q15,Q27
109	109		1509524-00	2N 3904 NPN 310MW SI 40 40 M	8	8	8	Q10,Q16,Q18,Q19,Q21,Q22,Q23,Q28
110	110		1512652-00	2N 6490 PNP 50W SI 60 40	1	1	1	Q13
111	111		1501913-00	2N 2904A PNP 600MW SI 60 40 Y	2	2	2	Q7,Q14
112	112		1914473-02	7815A VOLT REG,FIX +15V	1	1	1	E3

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY REG		K	PL	5413607-0-DBP	P

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION			REFERENCE DESIGNATOR
					00	YA	YB	
113	113		1914156-00	LM 393 VOLT.COMPARATOR DUAL	3	3	3	E1,E2,E4
114	114		1912107-00	324 OP AMP,QUAD	1	1	1	E6
115	115		1911944-00	555CN TIMER,FUNCT.BLOCK	3	3	3	E7,E8,E10
116	116		1912858-00	LS221 ONE SHOT-DUAL,SCHMIT	1	1	1	E5
117	117		1616212-00	80.0 UH 12.5ADC 30KHZ	1	1	1	L1
118	118		1616210-00	250.0 UH @ 6.5A DC,600,0 UH @	1	1	1	L2
119	119		1616211-00	350.0 UH 3A	1	1	1	L3
120	120		7422046-00	HEAT SINK,SINGLE	3	3	3	
121	121		7422047-01	HEAT SINK DOUBLE	2	2	2	
122	122		1213426-03	HEAT SINK,T0-3 1.880X01.4	1	1	1	
123	123		1214789-00	INSERT,THREAD	2	2	2	
124	124		9009769-00	WASHER,RECTNGLR STEEL	3	3	3	
125	125		9010128-00	SCREW,TAP PAN PHIL THD RL 4-	7	7	7	
126	126		9006024-01	SCREW,MACH PAN PHIL 6-	2	2	2	
127	127		9006011-01	SCREW,MACH PAN PHIL 4-	3	3	3	
128	128		9006688-00	WASHER,HELICAL SPLIT SST	3	3	3	
129	129		9006556-00	NUT,HEX 4-40X .264AF SS/N	3	3	3	
130	130		9006041-01	SCREW,MACH PAN PHIL 8-	2	2	2	
131	131		9006802-00	SPACER,CLEAR HOLE HEX ALUM 8	2	2	2	
132	132		9006656-00	WASHER,FLAT STEEL	2	2	2	
133	133		9007801-00	WASHER,HELICAL SPLIT SST	3	3	3	
134	134		9006690-00	WASHER,HELICAL SPLIT SST	2	2	2	
135	135		9006660-00	WASHER,FLAT SST	2	2	2	
136	136		9009005-00	NUT,HEX 10-32X .246AF SS/N	2	2	2	
137	137		9007906-00	WASHER,HELICAL SPLIT STEEL	2	2	2	
138	138		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	-	2	-	W1,W2
			CONT		-	-	1	W2
139	139	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	
140	140		1509700-00	2N 4036 PNP 7WC SI 80100 M	1	1	1	Q9
141	141	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	
142	142	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	
143	143	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	
144	144		9107688-55	WIRE(WRAP) 24AWG KYNAR UL13	A/R	A/R	A/R	
145	145		1110766-00	VZ= 18.0 5% 500M2 1N5248B D	-	2	-	D18,D36
			CONT		-	-	1	D18
146	146		1309413-00	3.83 K .25 W 1.0 % RN55D-F10	-	2	-	R80,R103
147	147		1305145-00	2.80 K .25 W 1.0 % RN55D-F10	-	1	1	R47
148	148		1312993-00	20.0 1.0 W 5.0 % CC	1	1	1	R123
149	149		1314923-00	42.20 K .25 W 1.0 % RN55D-F10	1	-	1	R39
150	150		1210929-09	FUSE, SUB-MINI, 7.000A, 125V,AXI	1	1	1	F2
151	151		1316575-00	10.0 2.0 W 5.0 % CC	1	1	1	R36
152	152		1114893-00	RECT,ULTRA FAST PIV= 50 IO= 6.0	1	1	1	D40
153	153		1911944-01	555-1 TIMER FUNCT.BLOCK,5	1	1	1	E9

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY REG		K	PL	5413607-0-DBP	P

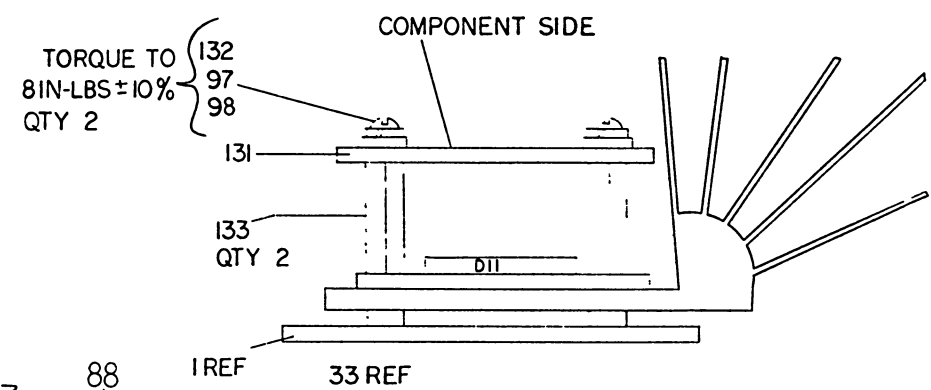
LINE ITEM DOCUMENT NUMBER PART NUMBER DESCRIPTION QTY PER VARIATION
00 YA YB REFERENCE DESIGNATOR

154 NOTE: ITEM #75; .17' IS USED.
155 NOTE: ITEM #144; .19' IS USED.
156 NOTE: ITEM #96; .56' IS USED.
157 NOTE: ITEM #7, FOR C43 & C44, DEC P/N 1001610-00 MAY BE USED IN PLACE OF DEC P/N 1001610-01.

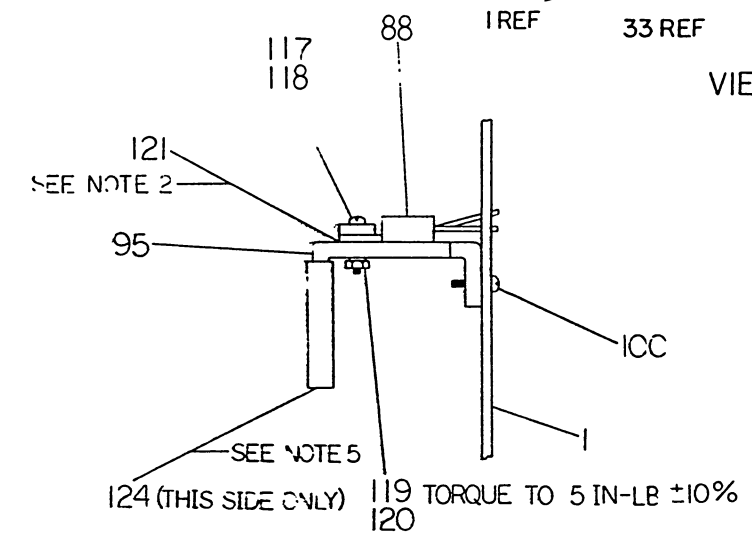
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MEMORY REG		K	PL	5413607-0-DBP	P

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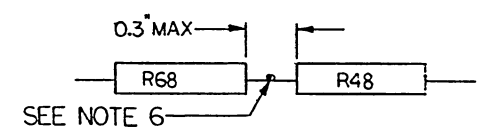
COMPONENT SIDE VIEW



VIEW F-F



VIEW C-C
SCALE: 2/1

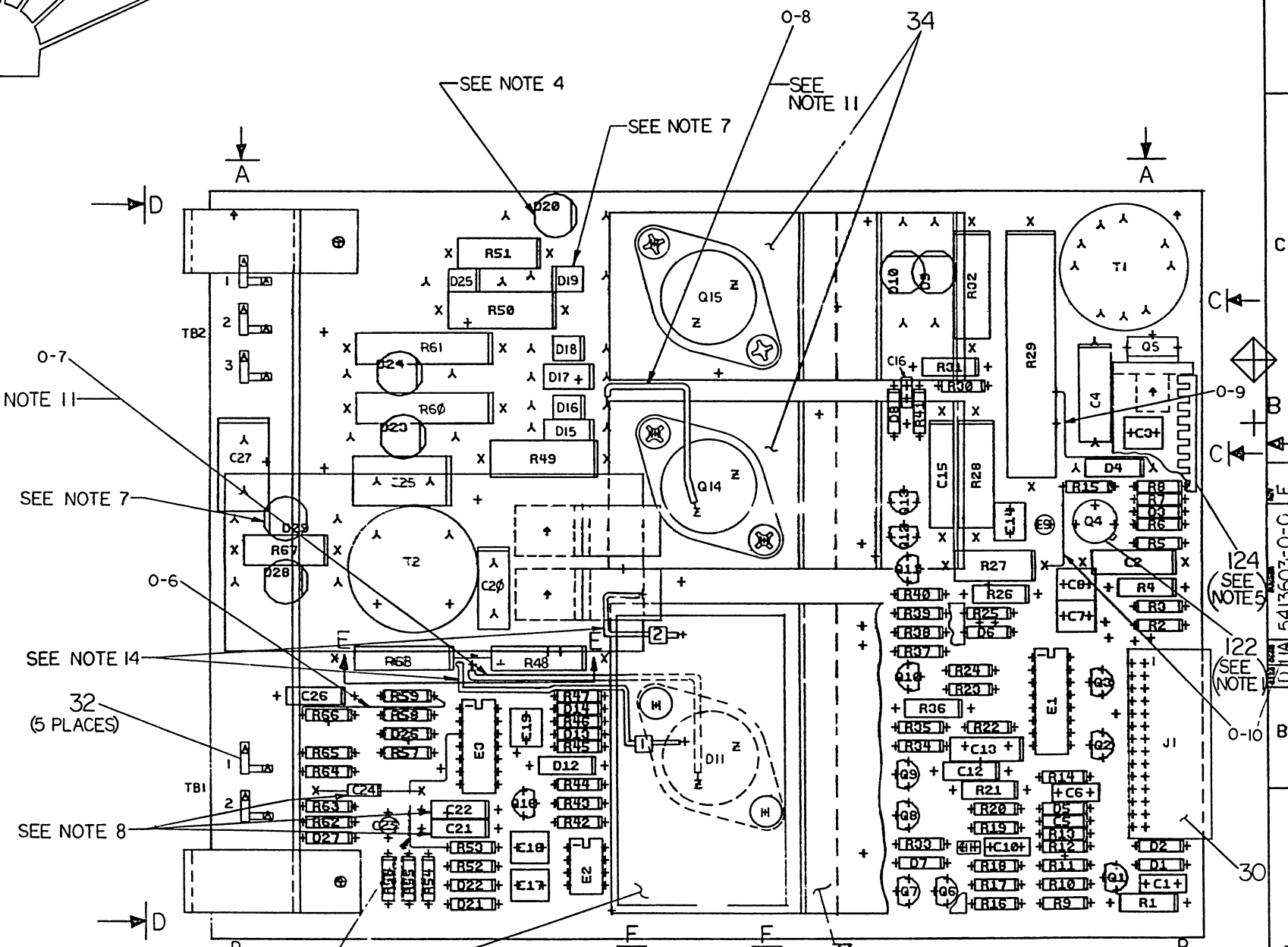


VIEW E-E
SCALE: 2/1

5. APPLY GROMMET (ITEM 124) TO HEAT SINK (ITEM 95) USING PERMABOND (ITEM 126). (USE ONLY ON SIDE INDICATED)
 6. R48 & R68 ARE CONNECTED BY TWISTING ONE LEAD OF R68 WITH ONE LEAD OF R48 AND SOLDERING. THE SPECIFIED SPACING BETWEEN THE BODIES OF THE RESISTORS MUST NOT BE EXCEEDED AND ALL EXTRA LEAD MATERIAL MUST BE REMOVED.
 7. D19 & D29 HAVE CATHODES IN OPPOSITE DIRECTION TO OTHER DIODES ON BOARD.
 8. APPLY INSULATING SLEEVING (ITEM 127) TO EACH LEAD OF C24, C22 & C21
 9. POSITIVE TERMINAL OF CAP. C28 (ITEM 16) IS CONNECTED TO THIS CAPACITOR STRAP (ITEM 103).
- NOTES: 1. USE TRANSIPAD (ITEM 122) UNDER Q4.
2. USE THERMAL COMPOUND (ITEM 121) BETWEEN D11, Q5, Q14, Q15 AND HEAT SINKS.
3. APPLY GROMMET (ITEM 112) TO KEMER MTG BRV1 (ITEM 107) USING PERMABOND (ITEM 126). (APPLY ONLY IN AREA INDICATED)
4. RAISE P23, R48, R61, R32, R49, R67, D9, R68, D20, D23, D24, D28 AND D29 .100" TO .150" OFF PC BOARD.

10. NEGATIVE TERMINAL OF CAPACITOR C28 (ITEM 16) IS CONNECTED TO THIS CAPACITOR STRAP (ITEM 103).
11. USE 22 AWG BUS WIRE (ITEM 129) AND APPLY INSULATING SLEEVING (ITEM 127) TO REWORK INSTRUCTION *0-7 & *0-8
12. REMOVE ENTIRE ETCH BETWEEN CUT MARKS FOR REWORK INSTRUCTIONS *0-1, *0-2 & *0-4.
13. Q5 MUST BE MOUNTED TO HEATSINK BEFORE BEING ATTACHED TO P.C.B.

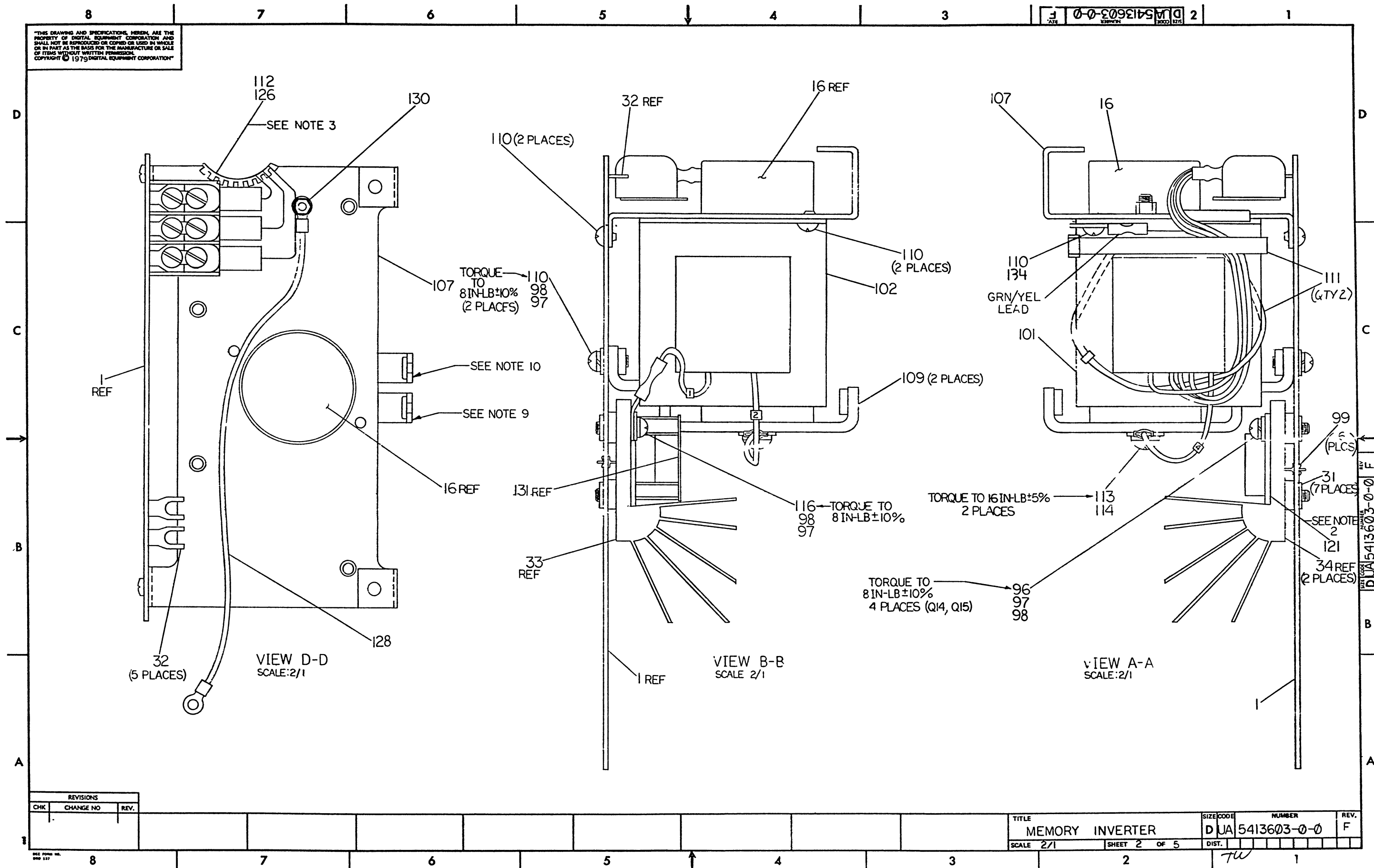
14. TACK SOLDER LEAD #1 TO ETCH UNDER R68 AND USE PTH NEAR HEATSINK (ITEM 33) FOR LEAD #2.



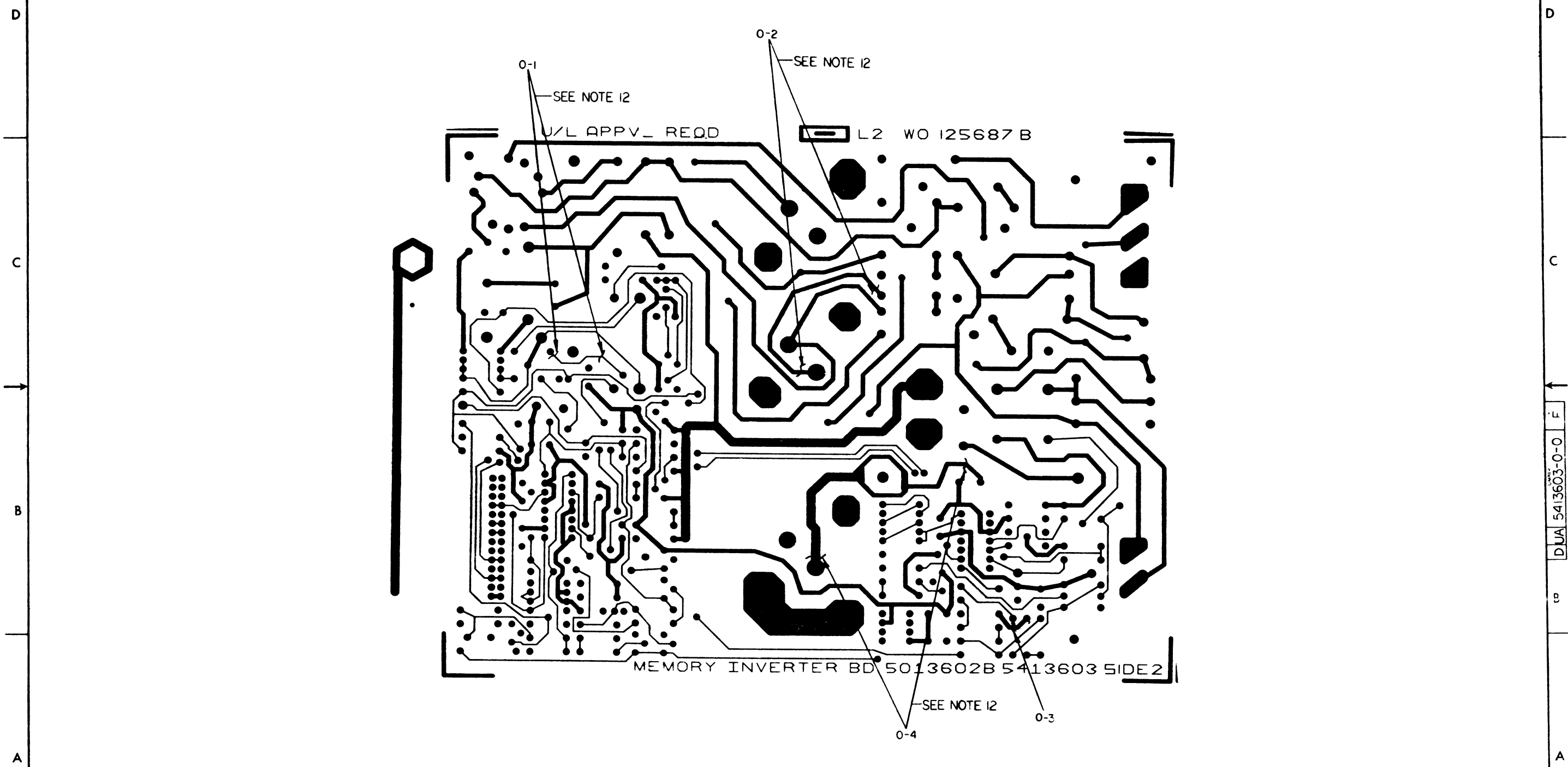
ETCH REV.	P.C. DESIGN DATA BASE REV.

SIGNATURES	DATE	TITLE
DRN. <i>[Signature]</i>	2-7-73	digital
CHK. <i>[Signature]</i>	2-7-73	
ENG. <i>[Signature]</i>	2-7-73	
PROJ. ENG. <i>[Signature]</i>	2-7-73	
PROD. <i>[Signature]</i>	2-7-73	
SCALE 2/1		
SHT. 1 OF 5		
NEXT HIGHER ASSY.		
SIZE CODE	NUMBER	REV
D UA	5413603-0-0 F	

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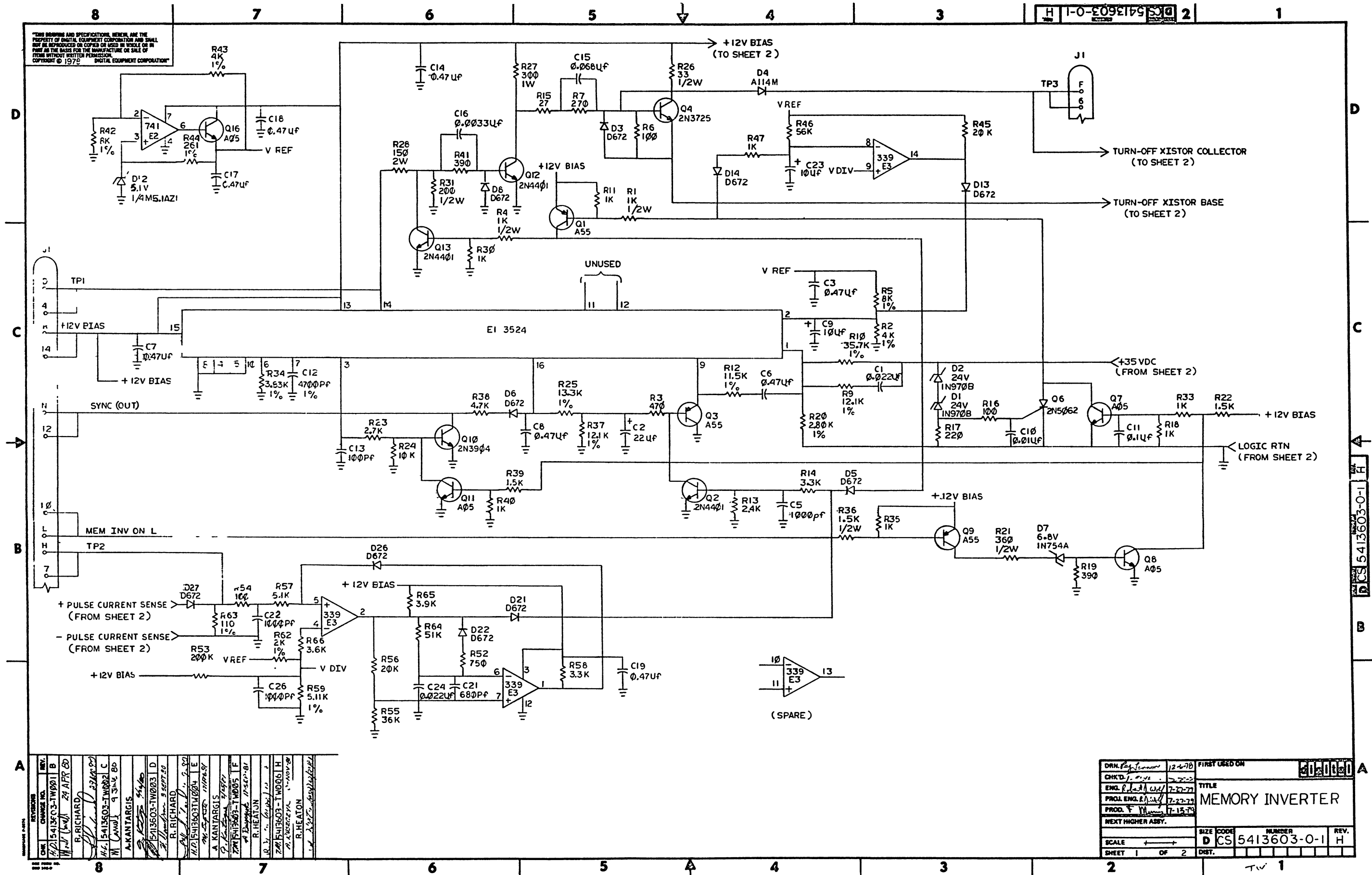


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REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE	CODE	NUMBER		REV
MEMORY INVERTER		D	UA	5413603-C-0		F
SCALE	2/1	SHEET 4 OF 5		DIST		



1978



TITLE		MEMORY INVERTER		SIZE CODE		NUMBER		REV	
				D CS		5413603-0-1		H	
SCALE				SHEET 2 OF 2		DIST.			

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5013602-0-0	5013602-00	DRILL & ETCH BD	1	
2	2		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	C13
3	3		1000052-00	.068 MFD 100V 10% MYLR	1	C15
4	4	BLANK		*** THIS ITEM IS NOT USED ***	-	
5	5		1005636-00	22 MFD 6V 10% S.TANT	1	C2
6	6		1009312-00	.0047 MFD 100V 1% MYLR	1	C12
7	7		1010279-00	.47 MFD 25V 20% CER	8	C7,C18,C19,C8,C14,C17,C3,C6
8	8		1010978-24	.01 MFD 50V 10% CER	1	C10
9	9		1011740-01	3300.0 MMF 50V 10% CER	1	C16
10	10		1011683-00	.022 MFD 50V 10% CER	2	C1,C24
11	11		1013466-08	680.0 MMF 50V 10% X7R CER	1	C21
12	12		1013466-09	1000.0 MMF 50V 10% X7R CER	3	C5,C22,C26
13	13		1011847-02	.01 MFD 600V 10% POLYPROP	1	C4
14	14		1014139-00	.0022 MFD 600V 10% POLYPROP	2	C25,C27
15	15		1013397-00	3900.0 MMF 300V 10%200PPM MIC	1	C20
16	16		1016168-00	5000 MFD 55V 20% AL EL	1	C28
17	17		1010978-36	.1 MFD 50V 10% CER	1	C11
18	18		1010866-02	10 MFD 25V +50-20% S.TANT	2	C9,C23
19	19		1105275-00	D 672 TR= 15NS PIV= 60V SI	10	D26,D27,D21,D22,D8,D5,D3,D14,
						D13,D6
20	20		1105871-00	1/4MS.1A21 = 5.1 1% .25W N	1	D12
21	21		1109991-00	1N 754A VZ= 6.8 5% .40W N	1	D7
22	22		1110856-00	1N 970B VZ= 24.0 5% .40W Y	2	D1,D2
23	23		1112594-01	A115B PIV=200 I= 3A	1	D10
24	24		1112594-02	A115M PIV=600 I= 3A	6	D24,D20,D23,D28,D29,D9
25	25		1112595-00	A114F PIV= 50 I= 1A	2	D16,D18
26	26		1112595-02	A114M PIV=600 I= 1A	3	D25,D4,D19
27	27		1114192-00	TR=200NS COM. CATHODE	1	D11
28	28		1114435-00	1N 5338 VZ= 5.1 5% 5W	2	D15,D17
29	29		1110968-00	2N 5062 SCR2100V I=.8A T092	1	G6

CONT

REVISION HISTORY		BASIC PART NO: 5413603		DRN: K.SHEYTANIAN		DATE: 20-DEC-78		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: F.GAROFALO		DATE: 20-DEC-78		TITLE PARTS LIST	
---	INIT	A	SECTION VARIATION INDEX					MEMORY INVERTER	
RW	5413603-TW001	B	[A] 00						
AK	5413603-UW192!)	C	[B]						
AK	5413603-TW002	C	[C]	DES.ENG: J.A.HERRMANN		DATE: 20-DEC-78			
RW	5413603-TW003	D	[D]						
RW	5413603-TW004	E	[E]	RESP.ENG.: J.HERMANN		DATE: 20-DEC-78		DOCUMENT NUMBER	
EC	5413603-TW005	F	[F]					SIZE CODE NUMBER REV	
EC	5413603-TW006	H	[H]						
RH	5413603-TW06A	H	[J]	MFG.ENG.: J.COMELLA		DATE: 20-DEC-78		K PL 5413603-0-DBP H	
			[K]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[L]	D-UA-5413603-0-0				20401H.PLS 37	
			[M]						
			[N]						

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
30	30		1216112-01	HEADER.100 28POS RT ANGLE	1		J1
31	31		1214789-00	INSERT, TAPREMOVED 3-32 BRASS, ELEC	1		
32	32		1216269-01	TERM, SPADE .145STUD SOLDER	5		
33	33		1216314-00	HEAT SINK	1		
34	34		1216314-01	HEAT SINK	2		
35	35		1309679-00	16.90 6.0 W 1.0 % WW	2		R48,R68
36	36		1300195-00	33.0 .50 W 5.0 % CC	1		R26
37	37		1300229-00	100.0 .25 W 5.0 % CC	4		R16,R6,R8,R54
38	38		1300259-00	*** THIS ITEM IS NOT USED ***	-		
39	39		1300257-00	150.0 2.0 W 5.0 % CC	1		R28
40	40		1300271-00	220.0 .25 W 5.0 % CC	1		R17
41	41		1300292-00	300.0 1.0 W 5.0 % CC	1		R27
42	42		1300309-00	390.0 .25 W 5.0 % CC	2		R19,R41
43	43		1300316-00	470.0 .25 W 5.0 % CC	1		R3
44	44		1300364-00	1.0 K .50 W 5.0 % CC	2		R4,R1
45	45		1300365-00	1.0 K .25 W 5.0 % CC	7		R30,R11,R35,R18,R33,R40,R47
46	46		1300394-00	1.50 K .50 W 5.0 % CC	1		R36
47	47		1300439-00	3.30 K .25 W 5.0 % CC	2		R58,R14
48	48		1300444-00	3.90 K .25 W 5.0 % CC	1		R65
49	49		1300447-00	4.70 K .25 W 5.0 % CC	1		R38
50	50		1300479-00	10.0 K .25 W 5.0 % CC	1		R24
51	51		1301401-00	750.0 .25 W 5.0 % CC	1		R52
52	52		1301522-00	27.0 .25 W 5.0 % CC	1		R15
53	53		1303169-00	500.0 5.0 W 5.0 % WW	2		R60,R61
54	54		1301972-00	270.0 .25 W 5.0 % CC	1		R7
55	55		1302373-00	251.0 .25 W 1.0 % RN55D-F10	1		R44
56	56		1302377-00	*** THIS ITEM IS NOT USED ***	-		
57	57		1302383-00	360.0 .50 W 5.0 % CC	1		R21
58	58		1302391-00	20.0 K .25 W 5.0 % CC	2		R56,R45
59	59		1304839-00	51.0 K .25 W 5.0 % CC	1		R64
60	60		1303114-00	*** THIS ITEM IS NOT USED ***	-		
61	61		1303313-00	12.10 K .25 W 1.0 % RN55D-F10	2		R37,R9
62	62		1305127-00	4.0 K .25 W 1.0 % RN55D-F10	2		R43,R2
63	63		1305129-00	8.0 K .25 W 1.0 % RN55D-F10	2		R42,R5
64	64		1305145-00	2.80 K .25 W 1.0 % RN55D-F10	1		R20
65	65		1305322-00	*** THIS ITEM IS NOT USED ***	-		
66	66		1305320-00	270.0 2.0 W 5.0 % CC	1		R50
67	67		1305421-00	35.70 K .25 W 1.0 % RN55D-F10	1		R10
68	68		1314350-00	1.0 2.0 W10.0 % FUSE	3		R32,R49,R67
69	69		1309413-00	3.63 K .25 W 1.0 % RN55D-F10	1		R34
70	70		1314172-00	270.0 14.0 W 5.0 % WW	1		R29
71	71		1300426-00	2.70 K .25 W 5.0 % CC	1		R23
72	72		1312565-00	13.30 K .25 W 1.0 % RN55D-F10	1		R25
73	73		1312923-00	*** THIS ITEM IS NOT USED ***	-		
74	74		1312930-00	5.10 K .25 W 5.0 % CC	1		R57
75	75		1312932-00	36.0 K .25 W 5.0 % CC	1		R55
76	76		1313151-00	3.60 K .25 W 5.0 % CC	1		R66
77	77		1313581-00	110.0 .25 W 1.0 % RN55D-F10	1		R63

D	I	G	I	T	A	L	TITLE	MEMORY INVERTER	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	5413603-D-DBP	4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
78	78		1300389-00	*** THIS ITEM IS NOT USED ***	-		
79	79		1302381-00	200.0 .50 W 5.0 % CC	1		R31
80	80		1300368-00	1.0 K 1.0 W 5.0 % CC	1		R51
81	81		1300391-00	1.50 K .25 W 5.0 % CC	2		R39,R22
82	82		1302395-00	56.0 K .25 W 5.0 % CC	1		R46
83	83		1510705-00	XA 05 NPN 500MW SI 60 50 P	4		Q7,Q8,Q11,Q16
84	84		1510706-00	XA 55 PNP 500MW SI 60 50 P	3		Q1,Q3,Q9
85	85		1510959-00	2N 3725 NPN 3.5WC SI 50 60 P	1		Q4
86	86		1513489-00	2N 4401 NPN 350MW SI 40 20	3		Q2,Q12,Q13
87	87		1514195-00	2N 6547 NPN 400V SI 15A	2		Q14,Q15
88	88		1514271-01	D 44Q5 NPN 31W SI225 30	1		Q5
89	89		1509524-00	2N 3904 NPN 310MW SI 40 40 M	1		Q10
90	90		1614202-00	XFMR CURRENT	1		T2
91	91		1614204-00	PULSE XFMR 20312 BASE DRIVE	1		T1
92	92		1910298-00	741 OP AMP GEN PURP. COM	1		E2
93	93		1312108-00	339 VOLT CMPRTR,QUAD	1		E3
94	94		1914250-00	3524 MODULATOR-REGULATING	1		E1
95	95		7422046-00	HEAT SINK,SINGLE	1		
96	96		9006025-01	SCREW,PAN,PHIL 6-32X 5/8 SS	4		
97	97		9006656-00	WASHER, FLAT, .312 O.D. X .156 I	9		
98	98		9007801-00	WASHER, LOCK, S.S. #6	9		
99	99		9007836-00	EYELET,ROLL FLANGE .1210DX .093	6		
100	100		9010128-00	SCREW,TAPPING,TYPE PAN,PHIL,	1		
101	101		7016051-00	TRANSFORMER ASSY	1		T3
102	102		7016052-00	CHOKE ASSY	1		L1
103	103		1303177-00	2.40 K .25 W 5.0 % CC	1		R13
104	104		1302860-00	11.50 K .25 W 1.0 % RN55D-F10	1		R12
105	105		1304854-00	5.11 K .25 W 1.0 % RN55D-F10	1		R59
106	106		1300411-00	2.0 K .25 W 1.0 % RN55D-F10	1		R62
107	107		7421435-00	MTG BRKT	1		
108	108		9009052-00	*** THIS ITEM IS NOT USED ***	-		
109	109		7422045-00	CAPACITOR STRAP	2		
110	110		9009708-00	SCREW,PAN,PHIL,TAP'G 6-32X 5/16	7		
111	111		9009617-00	TIE,CABLE,BUNDLE DIA 0-3"TYPE=101	2		
112	112		9007035-00	GROMMET #122-37-1500	A/R		
113	113		9006071-00	SCREW,PAN,PHIL 10-32X 3/8 SS	2		
114	114		9007906-00	WASHER, LOCK S.S. #10	2		
115	115		9009243-00	*** THIS ITEM IS NOT USED ***	-		
116	116		9007793-00	SCREW,PAN,PHIL 6-32X 9/16 SS	1		
117	117		9009769-00	WASHER, RECTANGULAR .405X.225X.0	1		
118	118		9006011-01	SCREW,PAN,PHIL 4-40X 3/8 SS	1		
119	119		9006688-00	WASHER, LOCK, S.S. #4	1		
120	120		9006556-00	NUT,HEX 4-40X1/4 AF X 3/	1		
121	121		9008268-00	COMPOUND, THERMAL JOINT	A/R		
122	122		9007201-00	TRANSIPADS #10253	1		
123	123		9105740-55	WIRE(WRAP)30AWG UL1423	A/R		
124	124		9007036-00	GROMMET #122-37-2500	A/R		
125	125		1314516-00	200.0 K .25 W 5.0 % CC	1		R53

D	I	G	I	T	A	L	TITLE	MEMORY INVERTER	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5413603-0-DBP	H

AUTOMATED BY PRTLST.2E(3)

PARTS LIST

SHEET A4 OF A4

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
126	126		9009157-00	ADH, LIQ. RM. TEMP CURING COLORLESS	A/R	
127	127		9107256-11	TUBING, THIN WALL, .027 ID	UL	A/R
128	128		7016920-00	JUMPER ASSY		1
129	129		9107560-01	WIRE, BUSS, 22AWG	A/R	
130	130		9006565-00	NUT, KEP 10-32X 3/8 AF		1
131	131		5413882-00	SNV SNUBBER		1
132	132		9007853-01	SCREW, PAN, PHIL 6-32X1-1/8 SS		2
133	133		9006803-00	SPACER, HEX, ALUM, .138 ID X .5		2
134	134		9009708-01	SCREW, PAN, PHIL, TAP'G 6-32X 3/8		1

125 NOTE: ITEM #123; .52' IS USED.
126 NOTE: ITEM #124; .03' IS USED.
127 NOTE: ITEM #127; .56' IS USED.
128 NOTE: ITEM #129; .37' IS USED.

DIGITAL							TITLE		MEMORY INVERTER		SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
													K	PL	5413603-Q-DBP	H

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0-0-050910207 2

3(QTY 2)

3
4
5 } (QTY 2)

2

1

2	WASHER, FLAT #6	9006656-00	5
2	WASHER, LOCK, S.S. #6	9007801-00	4
4	SCREW, PAN HD, SELF TAP #6-32 X .31 LG	9009708-00	3
1	MEMORY REGULATOR BOARD	5413607-00	2
1	MEMORY INVERTER BOARD	5413603-00	1

			DESCRIPTION		DWG./PART NO.		ITEM NO.			
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
			ANGLES 20° 30°	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
					ASSEMBLY		GENERAL		GENERAL	
			SURFACE QUALITY IN		0.004	0.008	0.012	0.016	0.020	0.030
MICROINCHES	PREFERRED	0.002	0.010	0.025	0.04	0.06	0.1			

THIRD ANGLE PROJECTION	DRN. <i>A. Mow</i> 6-6-79	FIRST USED ON	H7140
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>PLC</i> 2/4/79	TITLE	H7140
DO NOT SCALE DWG	ENG. <i>PLC</i> 2/4/79	MEMORY VOLTAGE ASSY	
MATERIAL SEE PARTS LIST	PROJ. ENG. <i>PLC</i> 12/4/77	SIZE	D
FINISH <i>11</i>	PROD. <i>PLC</i> 1/4/79	NUMBER	AD 7016050-0-0
	NEXT HIGHER ASSY.	REV.	*
	SCALE NONE		
	SHEET 2 OF 2		

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D

D

C

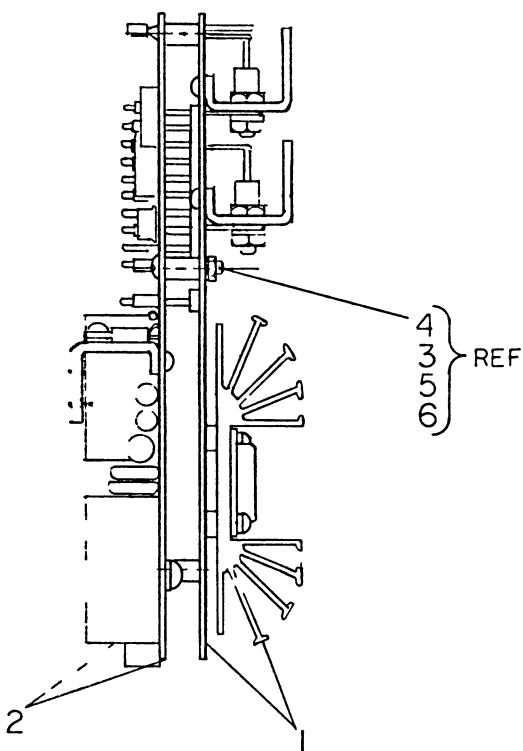
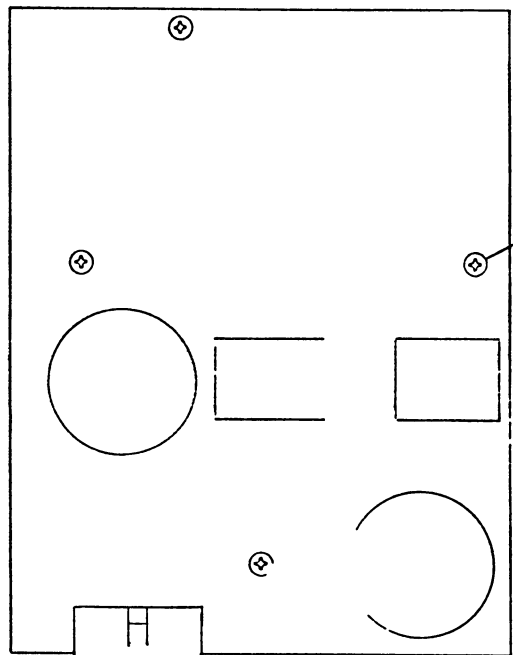
C

B

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A

A



REV.	CHANGE NO.
1	
2	
3	
4	
5	
6	
7	
8	

DEC 1980

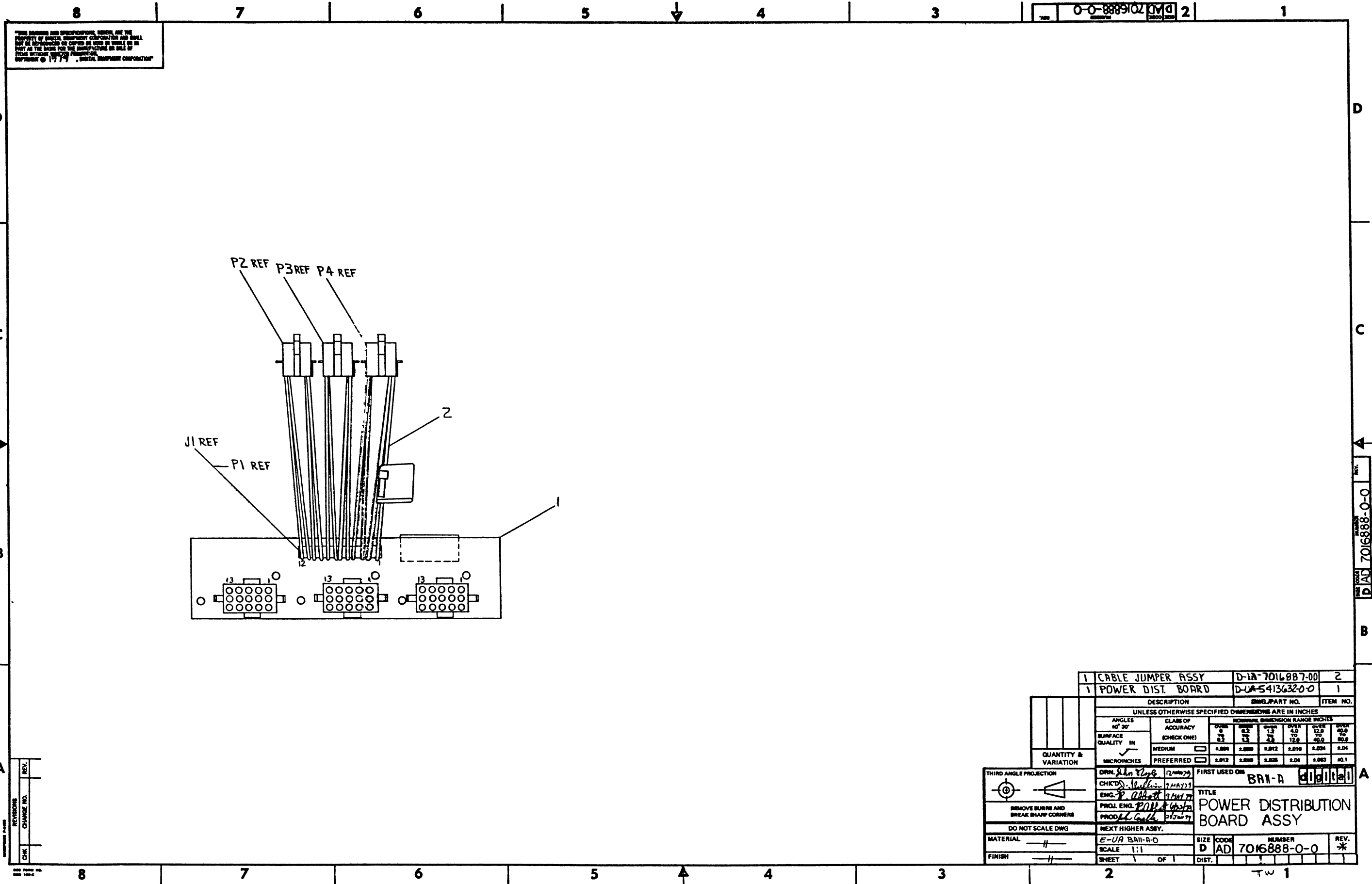
4	NUT, HEX #6-32X.25 A.F.	9008957-00	6
4	WASHER, LOCK, SS. #6	9007801-00	5
4	SCR, PHIL PAN HD #6-32X.69LG	9007794-01	4
4	SPACER, HEX, ALUM #6-32X.38LG	9006844-00	3
1	LOGIC INVERTER CONT BD	5413601-CC	2
1	LOGIC INVERTER BD	5413599-00	1

DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES 30° 30'	CLASS OF ACCURACY	NOMINAL DIMENSIONS IN INCHES
SURFACE QUALITY	(CHECK ONE)	OVER 0.005 TO 0.010
MICROMETRES	PREFERRED	OVER 0.010 TO 0.015
QUANTITY & VARIATION		OVER 0.015 TO 0.020
		OVER 0.020 TO 0.025
		OVER 0.025 TO 0.030
		OVER 0.030 TO 0.035
		OVER 0.035 TO 0.040
		OVER 0.040 TO 0.045
		OVER 0.045 TO 0.050

THIRD ANGLE PROJECTION	DRN 2 2/2/79 16-5-79	FIRST USED ON	H7140
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D 1/6/79 12-4-79	TITLE	H7140 +5V 1.1. INVERTER ASSY
DO NOT SCALE DWG	PROJ. ENG. 1/1/79 12/4/79	SIZE	D
MATERIAL SEE PARTS LIST	PROD. 1/1/79 12/4/79	CODE	AD
FINISH		NUMBER	7016057-0-0
		REV	*
		SHEET	1 OF 1
		DIST.	

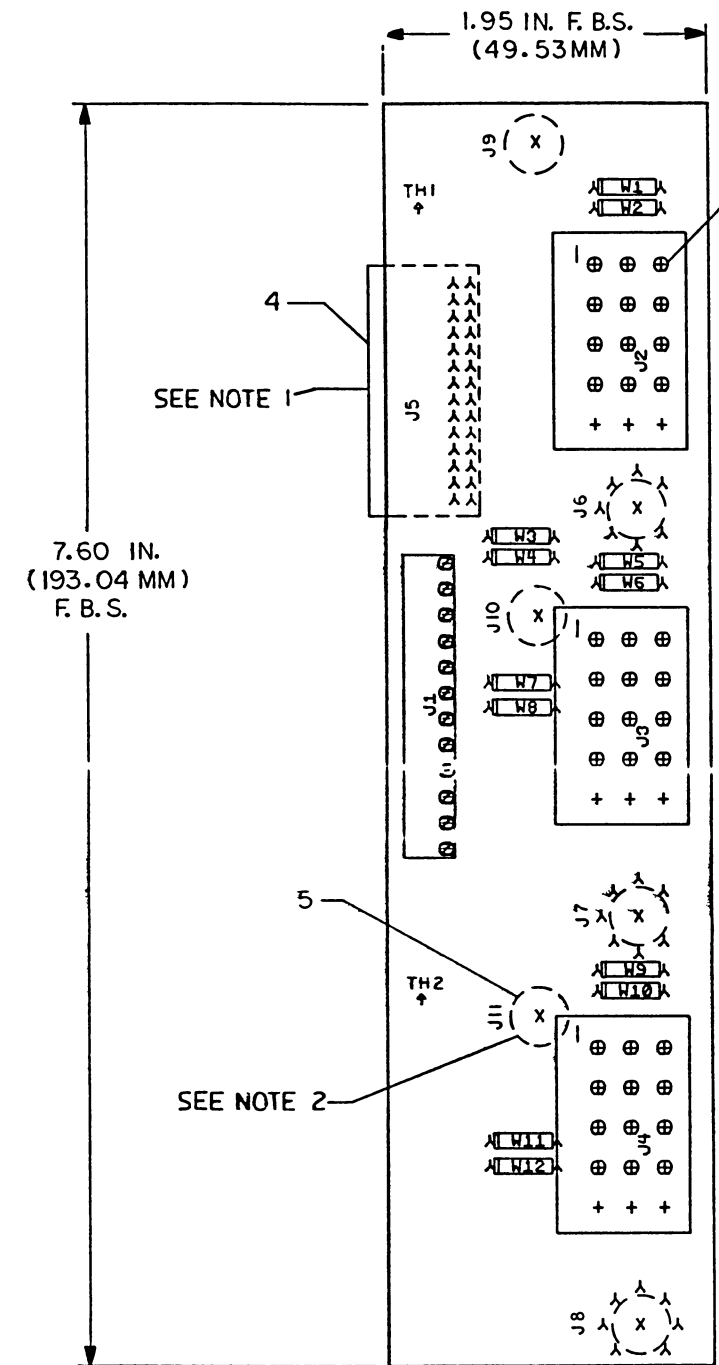
2

1



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COMPONENT SIDE VIEW



NOTES:

- ITEM 4 (J5) MOUNT ON SIDE 2.
- ITEM 5 MOUNT ON SIDE 2.
- ITEM 5 MUST BE SOLDERED IN PLACE ON SIDE 2.

STEP 6	→ Y AXIS 0.000 STEP 0 TIMES
REPEAT	→ X AXIS 2.075 STEP 4 TIMES

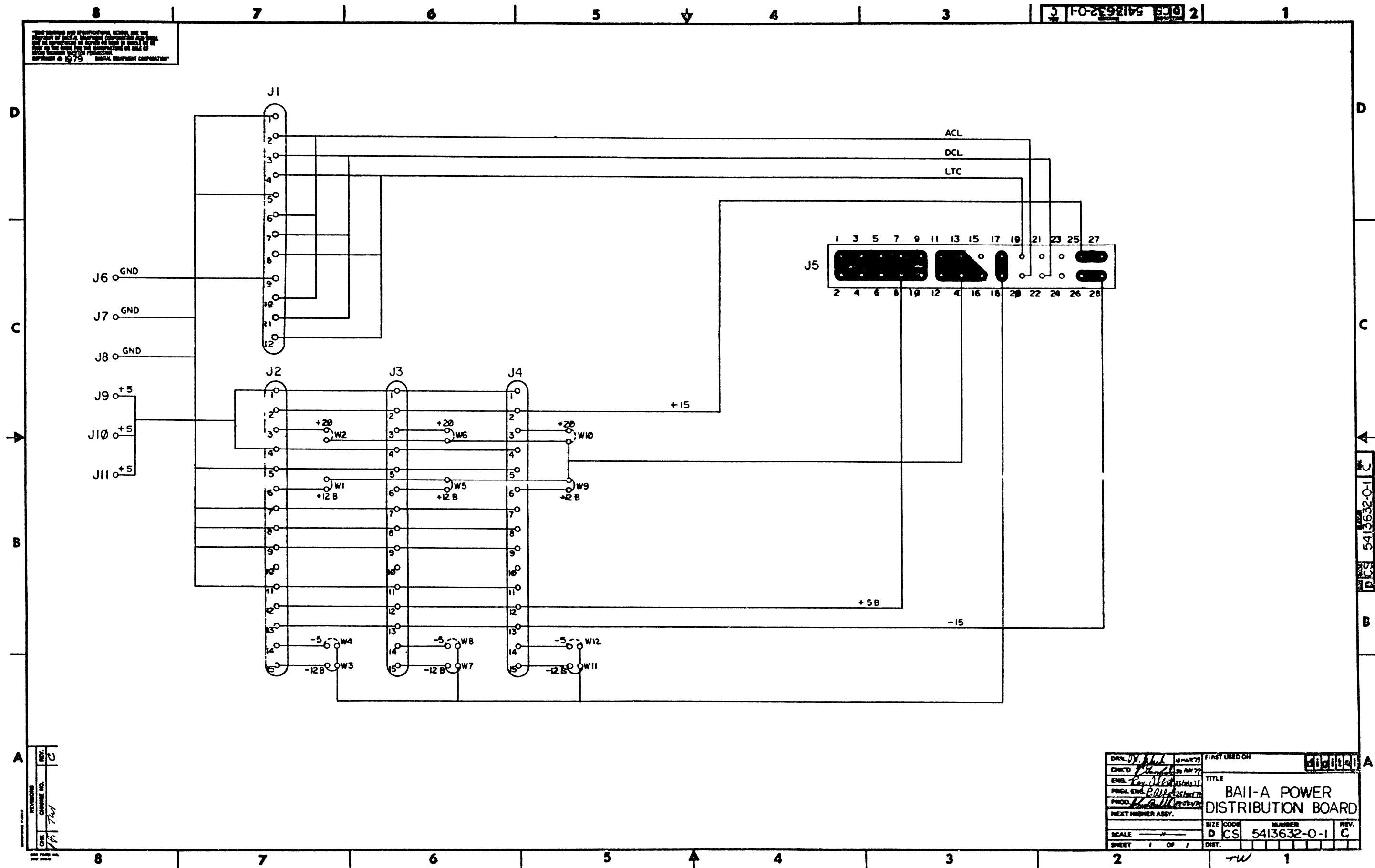
CHANGE NO. REV.	C	D
5413632-0	ML002	

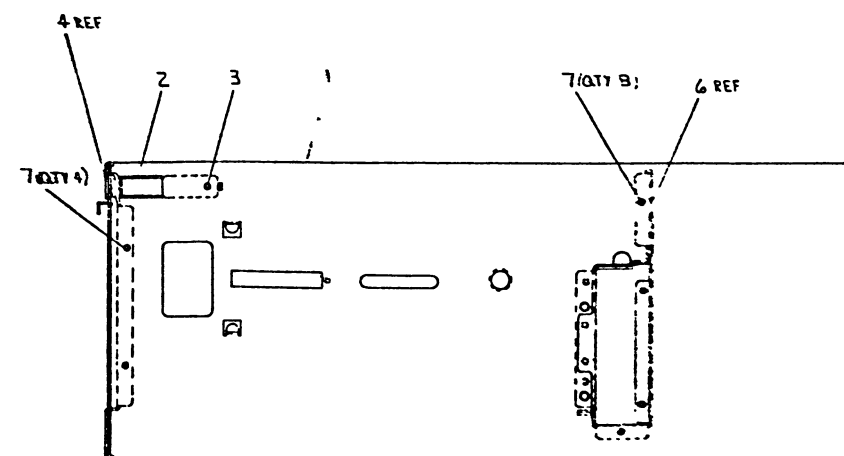
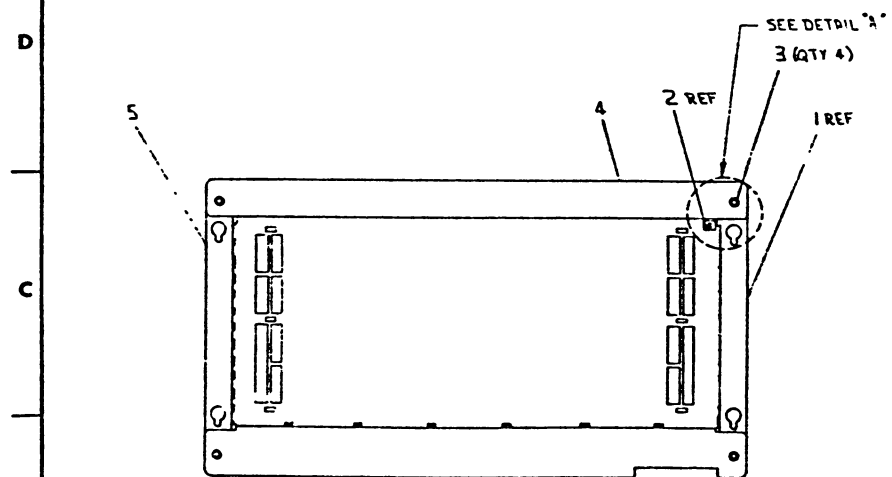
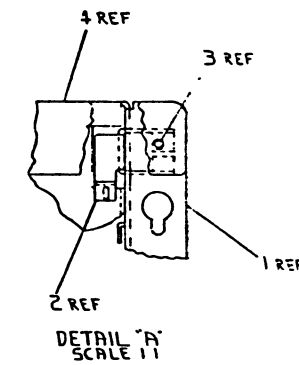
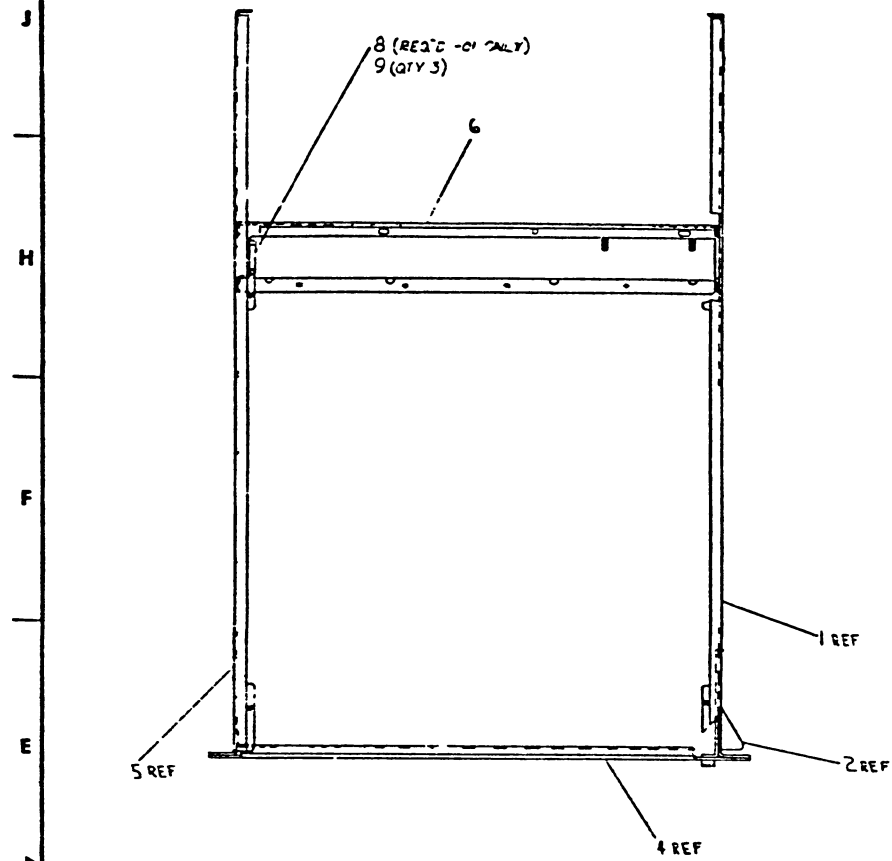
ETCH REV.	D-PI
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SIGNATURES	DATE
DRN. P. Glicker Teller	10-1-75
CHK'D. S. T. GERRY	2-3-75
MECH. ENG.	
PROD. ENG.	
SCALE 2 / 1	
SHT. 1 OF 1	
NEXT HIGHER ASSY. B-DD-5413632-0	

digital	TITLE BAI A POWER DISTRIBUTION
SIZE CODE	NUMBER
D UA 5413632-0-0 D	REV

1 MS#170017DP-1



[illegible]

CAUTION: OFF SHEET PARTS LIST,
SEE K-PL-7016493-0-03P
(23600)

12 RIVET, COUNTERS, "M" & D	16-116-715-00	7
1 PAN RAY SUBS, "M" & D	16-116-715-00	5
1 SIDE PANEL LEFT	40-7421-2-00	1
1 CARD, AGE, FRONT	40-7421-2-00	1
5 RIVET, SUBS, "M" & D	16-116-715-00	5
1 SPRING, BOX LOCK	16-742106-00	2
1 SIDE PANEL, RIVET	40-7421-2-00	1

[illegible]

REVISIONS		
DATE	CHANGE NO.	REV.
10/27/71	1	1
1. <i>10/27/71</i> 2. <i>10/27/71</i> 3. <i>10/27/71</i> 4. <i>10/27/71</i> 5. <i>10/27/71</i> 6. <i>10/27/71</i> 7. <i>10/27/71</i> 8. <i>10/27/71</i> 9. <i>10/27/71</i> 10. <i>10/27/71</i> 11. <i>10/27/71</i> 12. <i>10/27/71</i> 13. <i>10/27/71</i> 14. <i>10/27/71</i> 15. <i>10/27/71</i> 16. <i>10/27/71</i> 17. <i>10/27/71</i> 18. <i>10/27/71</i> 19. <i>10/27/71</i> 20. <i>10/27/71</i> 21. <i>10/27/71</i> 22. <i>10/27/71</i> 23. <i>10/27/71</i> 24. <i>10/27/71</i> 25. <i>10/27/71</i> 26. <i>10/27/71</i> 27. <i>10/27/71</i> 28. <i>10/27/71</i> 29. <i>10/27/71</i> 30. <i>10/27/71</i> 31. <i>10/27/71</i> 32. <i>10/27/71</i> 33. <i>10/27/71</i> 34. <i>10/27/71</i> 35. <i>10/27/71</i> 36. <i>10/27/71</i> 37. <i>10/27/71</i> 38. <i>10/27/71</i> 39. <i>10/27/71</i> 40. <i>10/27/71</i> 41. <i>10/27/71</i> 42. <i>10/27/71</i> 43. <i>10/27/71</i> 44. <i>10/27/71</i> 45. <i>10/27/71</i> 46. <i>10/27/71</i> 47. <i>10/27/71</i> 48. <i>10/27/71</i> 49. <i>10/27/71</i> 50. <i>10/27/71</i> 51. <i>10/27/71</i> 52. <i>10/27/71</i> 53. <i>10/27/71</i> 54. <i>10/27/71</i> 55. <i>10/27/71</i> 56. <i>10/27/71</i> 57. <i>10/27/71</i> 58. <i>10/27/71</i> 59. <i>10/27/71</i> 60. <i>10/27/71</i> 61. <i>10/27/71</i> 62. <i>10/27/71</i> 63. <i>10/27/71</i> 64. <i>10/27/71</i> 65. <i>10/27/71</i> 66. <i>10/27/71</i> 67. <i>10/27/71</i> 68. <i>10/27/71</i> 69. <i>10/27/71</i> 70. <i>10/27/71</i> 71. <i>10/27/71</i> 72. <i>10/27/71</i> 73. <i>10/27/71</i> 74. <i>10/27/71</i> 75. <i>10/27/71</i> 76. <i>10/27/71</i> 77. <i>10/27/71</i> 78. <i>10/27/71</i> 79. <i>10/27/71</i> 80. <i>10/27/71</i> 81. <i>10/27/71</i> 82. <i>10/27/71</i> 83. <i>10/27/71</i> 84. <i>10/27/71</i> 85. <i>10/27/71</i> 86. <i>10/27/71</i> 87. <i>10/27/71</i> 88. <i>10/27/71</i> 89. <i>10/27/71</i> 90. <i>10/27/71</i> 91. <i>10/27/71</i> 92. <i>10/27/71</i> 93. <i>10/27/71</i> 94. <i>10/27/71</i> 95. <i>10/27/71</i> 96. <i>10/27/71</i> 97. <i>10/27/71</i> 98. <i>10/27/71</i> 99. <i>10/27/71</i> 100. <i>10/27/71</i>		

PARTS LIST

QUANTITY PER VARIATION
00 01

PART NUMBER

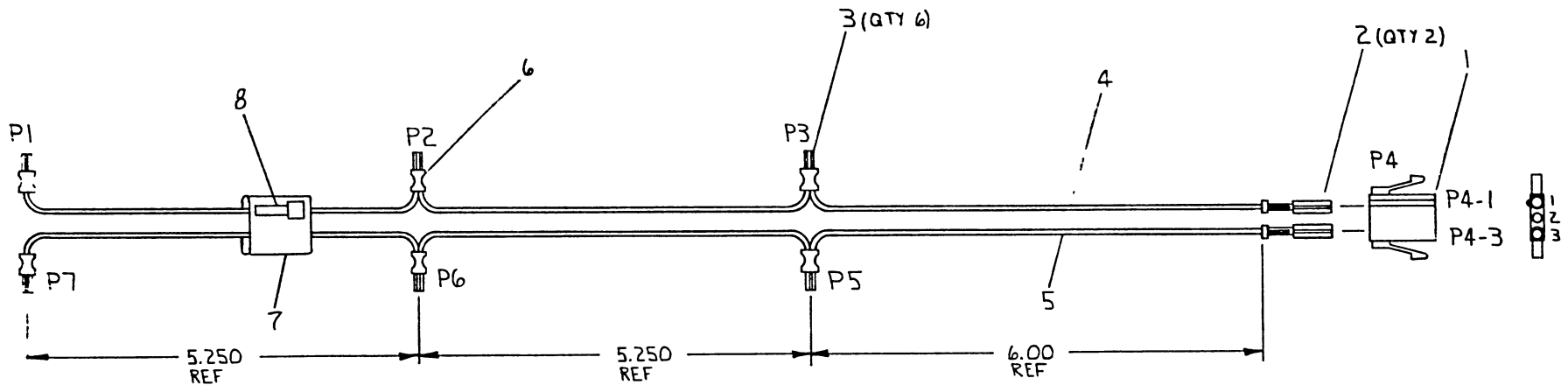
DESCRIPTION

1	1	E-ME-7421610-0-0	7421610-00	SIDE PANEL LEFT	1	1
2	2	D-MD-7421616-0-0	7421616-00	BCX, SPRING LOCK	1	1
3	3		9000030-05	RIVET, BLIND DOME 0.156DX0.362	5	5
4	4	E-MD-7421441-0-0	7421441-00	CARD CAGE FRONT	1	1
5	5	E-ME-7421631-0-0	7421631-00	SIDE PANEL LEFT	1	1
6	6	E-IA-7016390-0-0	7016390-00	FANTRAY SUPPORT WELDMENT	1	1
7	7		1216063-00	RIVET, BLIND	12	12
8	8	C-MD-7426276-0-0	7426276-01	SUPPORT, COVER, CABLE COMPARTMENT	-	1
9	9		9009626-00	RIVET, BLIND DOME 0.125DX0.275	-	3

REVISION HISTORY			BASIC PART NO: 7016493		DRN: H. DARAKJIAN		DATE: 5-JAN-82		DIGITAL				
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: T. MCCULLOUGH		DATE: 5-JAN-82		TITLE		PARTS LIST		
RM	INITIAL BA11-AE-TW001	D E	SECTION. VARIATION INDEX				DATE: 5-JAN-82		BA11-A BOX FRAME ASSEMBLY				
			[A] 00,01										
			[B]		DES.ENG.: R. BOUDREAU		DATE: 29-JUN-82						
			[C]										
			[D]		RESP.ENG.: R. GRUDA		DATE: 29-JUN-79		DOCUMENT NUMBER				
			[E]		MFG ENG.: J. COMELLA		DATE: 6-JUL-79		SIZE	CODE	NUMBER	REV	
			[F]		ASSEMBLY NUMBER: E-IA-7016493-0-0		TOP DOCUMENT NUMBER: E-AD-7016391-0-0		K	PL	7016493-0-DBP	E	
										FILE NAME: Z3600E.PLS		EDIT # 5	
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WIRE TABLE									
ITEM NO	DESCRIPTION			FROM			TO		
	AWG	COLOR	POINT	CONNECTION	TERM	POINT	CONNECTION	TERM	PRECUT LENGTH
5	18	RED	P1		3	P2		3	6 IN ± .12
5	18	RED	P2		3	P3		3	6 IN
5	18	RED	P3		3	P4	P4-1	2	7 IN
4	18	WHITE	P7		3	P6		3	6 IN
4	18	WHITE	P6		3	P5		3	6 IN
4	18	WHITE	P5		3	P4	P4-3	2	7 IN ± .12



CAUTION: SEE OFF SHEET PARTS
LIST K-PL-7016392-0-DBP.
(Z3324A.PLS)

1	TIE, CABLE SSTI-M	9007031-00	8
1	CABLE, CABLE I.D.	9009532-00	7
1	SHRINK TUBING .188 DIA	9107254-09	6
1	WIRE #18 AWG RED	9107360-22	5
1	WIRE #18 AWG WHITE	9107360-99	4
6	TERMINAL 180S FASTON	9007647-00	3
2	PIN 18 AWG MATE'N LOC	1209379-00	2
1	CONN 3 PIN MATE'N LOC	1209350-03	1

DESCRIPTION		ENG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 30° 30'	GLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY	(CHECK ONE)	OVER 0.125	UNDER 0.125
MEDIUM	☒	0.125 TO 0.250	0.250 TO 0.500
MICROMETRES	☐	0.250 TO 0.500	0.500 TO 1.000

THIRD ANGLE PROJECTION	QUANTITY & VARIATION	DATE 10/1/78	FIRST USED ON BRII-A
REMOVE BURRS AND BREAK SHARP CORNERS	DO NOT SCALE DWG	ENG. <i>P. J. [Signature]</i> 10/1/78	TITLE FAN ASSEMBLY. CABLE
MATERIAL SEE PARTS LIST	SCALE 1:1	PROG. ENG. <i>P. J. [Signature]</i> 10/1/78	SIZE D
FINISH —	SHEET 1 OF 1	DIST.	NUMBER 7016392-0-0

REV.	CHANGE NO.	DATE	BY	CHK.
A	1	10/1/78	E. CLOPPER	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION		
					00	01	02
1	1	E-UA-5414218-0-0	5414218-00	SLV INTERFACE	1	0	0
2	2	E-UA-5414218-0-0	5414218-01	EIA SERIAL LINE INTERFACE	0	1	1
3	3	D-MD-7424022-0-0	7424022-00	BRKT, MTG SLU	1	1	1
4	4	A-PS-1217431-0-0	1217431-02	CONN,D SUB 10POS ASSY STRAIGHT W	2	1	2
5	5	A-PS-1217431-0-0	1217431-00	CONN,D SUB 25POS ASSY STRAIGHT W	1	0	0
6	6	B-IA-7424023-0-0	7424023-00	CONNECTOR, COVER SLU	0	2	1
7	7		9006862-00	SPACER, THREADED HEX ALUM 6-3	4	4	4
8	8		9009546-00	SCREW, SEMS PAN PHIL 4-	0	4	2
9	9		9006707-00	WASHER, FLAT NYLON 6-	8	8	8
10	10		9010174-00	SCREW, SEMS PAN PHIL 6-	8	8	8
11	11		9008451-01	SCREW LOCK, STANDOFF ONLY	6	2	4
12	12		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1	1	1
13	13		9008172-00	WASHER, FLAT SST	6	2	4

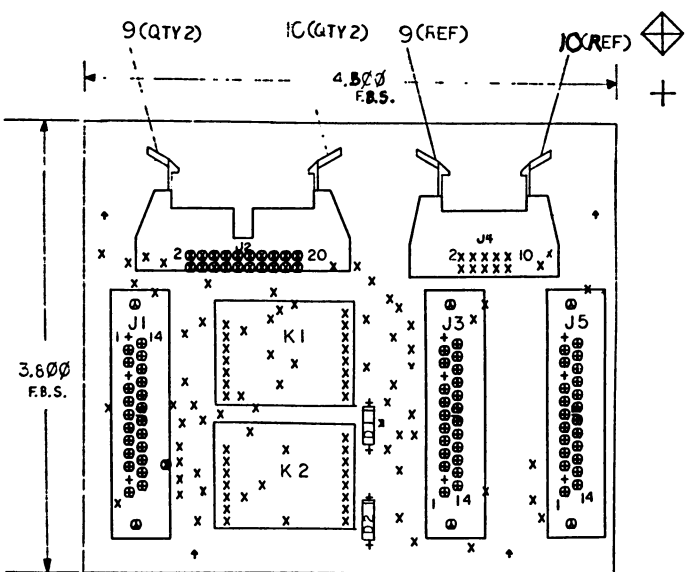
REVISION HISTORY		BASIC PART NO: 7017466		DRN: A. COLON		DATE: 29-APR-80		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: R.J. RILEY		DATE: 29-APR-80		TITLE PARTS LIST	
---	INITIAL	XO-2	SECTION. VARIATION INDEX	DES.ENG.: P. BARTH		DATE: 29-APR-80		SLU ASSEMBLY	
---	INITIAL	*	[A] 00,01,02	RESP.ENG.: D. CARLSON		DATE: 29-APR-80		DOCUMENT NUMBER	
R G	7017466-TW001	A	[B]	MFG.ENG.: G. ABREU		DATE: 29-APR-80		SIZE CODE NUMBER REV	
RG	7017466-TW002	B	[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[D]	D-AD-7017466-0-0		D-AD-7017466-0-0		Z1175B.PLS 11	
			[E]						
			[F]						
"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1982. DIGITAL EQUIPMENT CORPORATION"									

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
				00
1		1211439-00	CASTING, LOGIC FRAME FOR 1105	1
2		1211425-02	CONN,CARD 72PIN SLOTTED OPEN EN	3
3		1210258-01	CONN,CARD 288PIN SLOTTED OPEN EN	6
4	D-UA-5013816-0-0	5013816-00	11/24 BACK PLANE	1
5		9009149-00	PIN, STAKING, P.C. BOARD, .025 X	29
6		9006120-06	SCREW, POZIDRIVE FILLISTER HD SW	15
7	D-IA-7016961-0-0	7016961-00	POWER HARNESS (11/24)	1
8	SEE NOTE 1	9107370-00	WIRE,STRND,14AWG,IPVC UL1534	2
9		9008150-00	TERM,LUG #10STUD LOCKING 45	1
10		9107773-87	WIRE(WRAP)30AWG,TWP (UL1558)	A/R
11		9105740-44	WIRE(WRAP)30AWG UL1423	A/R
12	A-DC-7411881-0-0	7411881-00	DECAL BACKPLANE REV STATUS	1
13	BLANK			0
14	K-WL-7016905-0-1		WIRE LIST	REF
15	A-WT-7016905-0-2		AMT REV STATUS	REF

16 NOTE: NOTE 1: ITEM 8 LENGTH IS IN INCHES

REVISION HISTORY			BASIC PART NO: 7016905		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: H. DARAKJIAN	DATE: 28-APR-81	
---	INITIAL	-	SECTION. VARIATION INDEX	CHK'D: W. FISHER	DATE: 28-APR-81	TITLE PARTS LIST
RG	7016905-TW001	A	[A] 00			11/24 BACKPLANE ASSY
WB	11/24-TW01A	B	[B]	DES.ENG.: R. GRUDA	DATE: 28-APR-81	
			[C]			DOCUMENT NUMBER
			[D]	RESP.ENG.: R. GRUDA	DATE: 28-APR-81	SIZE CODE NUMBER REV
			[E]	MFG.ENG.: J. AVILES	DATE: 28-APR-81	K PL 7016905-0-DBP B
			[F]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME: EDIT #
				D-AD-7016905-0-0	E-UA-11/24-0-0	22443.PLS 7
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17801



COMPONENT SIDE VIEW

EUA 5414218-02

NOTES:		CHG. NO. REV.	
STEP 1	Y AXIS	STEP 2	Y AXIS
REPORT	X AXIS	REPORT	X AXIS
SIGNATURES		DATE	
DRN. J. F. F.	17801	17801	
CHK. D. A. T. G. G.	17801	17801	
REC. ENG. J. F. F.	17801	17801	
PROD. J. F. F.	17801	17801	
SCALE 2/1	OF	17801	
SHT. 1		OF 1	
NEXT NUMBER 850-5414218-0		17801	
EUA 5414218-02		17801	
TITLE		TITLE	
INTERFACE		INTERFACE	
SIZE CODE		SIZE CODE	
NUMBER		NUMBER	
EUA 5414218-02		EUA 5414218-02	
17801		17801	

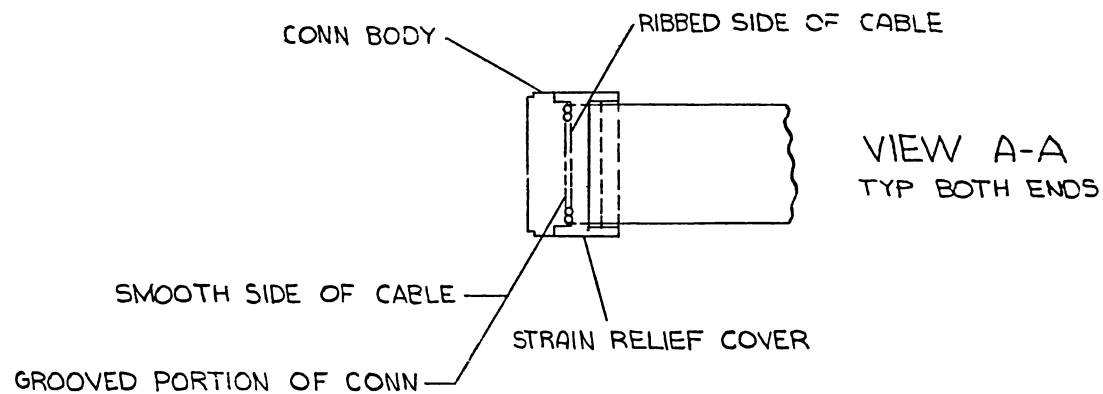
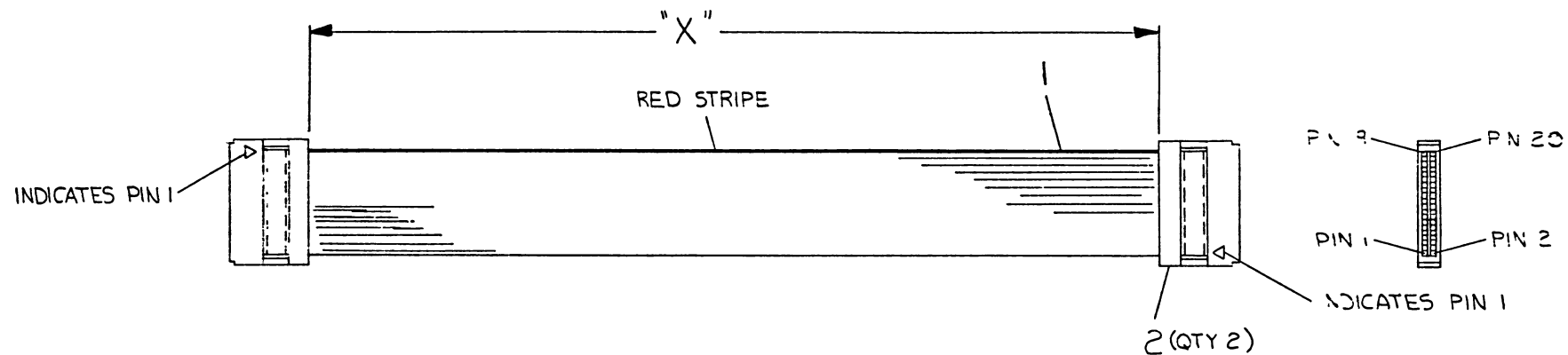
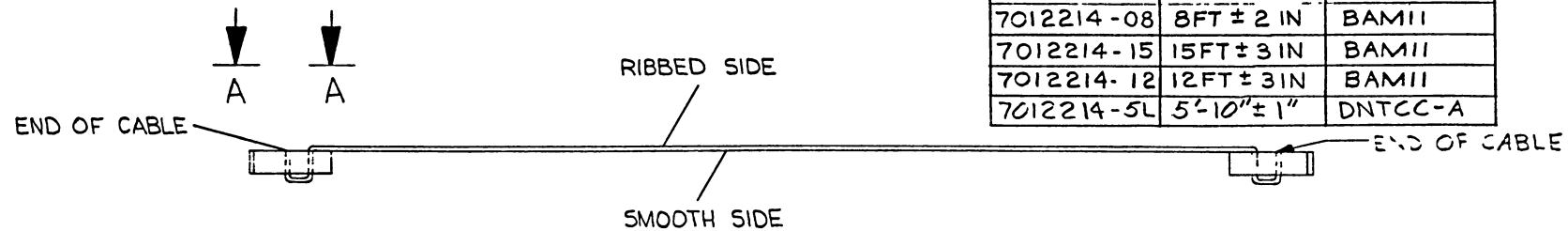
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION		REFERENCE DESIGNATOR
					00	01	
1	1	E-MD-5014217-0-0	5014217-00	ETCH BRD	1	1	
2	2		1216296-02	CONN, D SUB 25PIN	1	0	J1
3	3		1209941-12	HEADER 10POS RT ANGLE	1	1	J4
4	4		1209941-06	HEADER.100 20POS RT ANGLE	1	1	J2
5	5		1210972-00	RLY, REED, 5V COIL, 4PDT, 25A, 15P	2	0	K1, K2
6	6		1105796-00	1N 4004 PIV=400 I= 1A DO41 SP	2	0	D1, D2
7	7		1217536-01	CONN, D SUB 25PIN PC MTG W/PINS	2	2	J3, J5
8	8		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	0	8	W1-W8
9	9		1209941-03	HEADER RT ANGLE LEFT L	2	2	
10	10		1209941-04	HEADER RT ANGLE, RIGHT	2	2	

REVISION HISTORY			BASIC PART NO: 5414218			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	F.SMART	DATE:	3-MAR-80	
---	INITIAL	D	SECTION VARIATION INDEX	CHK'D:	E.T.GERRY	DATE:	3-MAR-80	TITLE PARTS LIST
			[A] 00,01					SLU INTERFACE
			[B]	DES.ENG:	R.BOUDROT	DATE:	7-MAY-80	
			[C]					DOCUMENT NUMBER
			[D]	RESP.ENG.:	R.BOUDROT	DATE:	7-MAY-80	SIZE CODE NUMBER REV
			[E]					
			[F]	MFG.ENG.:	G.ABREU	DATE:	7-MAY-80	K PL 5414218-0-DBP D
			[G]					
			[H]	ASSEMBLY NUMBER:	E-UA-5414218-0-0	TOP DOCUMENT NUMBER:	B-DD-5414218-0-0	FILE NAME: 21263D.PLS EDIT # 18
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			[J]					
			[K]					
			[L]					
			[M]					
			[N]					
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LEGEND		
NUMBER	DIM "X" VARIATION	USED ON
7012214-2D	2 FT 4 IN ± 1 IN	KY11-LB
7012214-7	7 FT ± 2 IN	KY11-LB
7012214-10	10 FT ± 2 IN	1104/34-TA
7012214-ØH	7 IN ± .5 IN	H75Ø-B
7012214-3	3 FT ± 1 IN	11/60-T
7012214-08	8 FT ± 2 IN	BAM11
7012214-15	15 FT ± 3 IN	BAM11
7012214-12	12 FT ± 3 IN	BAM11
7012214-5L	5'-10" ± 1"	DNTCC-A

LEGEND		
NUMBER	DIM "X" VARIATION	USED ON
7012214-0D	4.0" ± 0.2"	H7133



REVISIONS						
CHK	CHANGE NO.	REV.				
1	7012214-00001	A				
P. J. Jones 29 JULY 76						
R. PRATT						
7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000						
2	7012214-00002	B				
J. C. Jones 8 Sept. 76						
D. BARRY						
3	7012214-00003	C				
P. J. Jones 17 FEB 77						
R. PRATT						
4	7012214-00004	E				
E. Kennedy 13 JAN 78						
R. DIETER						
5	7012214-00005	F				
P. J. Jones 25 JAN 78						
D. J. ANDERSON						
6	7012214-00006	H				
D. J. Anderson 31 JAN 78						
R. PRATT						
7	7012214-00007	I				
P. J. Jones 18 JAN 78						
8	7012214-00008	J				
P. J. Jones 18 JAN 78						
9	7012214-00009	K				
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11	7012214-00011	M				
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P. J. Jones 18 JAN 78						
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66	7012214-00066	BP				
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P. J. Jones 18 JAN 78						
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P. J. Jones 18 JAN 78						
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P. J. Jones 18 JAN 78						
71	7012214-00071	BU				
P. J. Jones 18 JAN 78						
72	7012214-00072	BV				
P. J. Jones 18 JAN 78						
73	7012214-00073	BW				
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82	7012214-00082	CF				
P. J. Jones 18 JAN 78						
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P. J. Jones 18 JAN 78						
84	7012214-00084	CH				
P. J. Jones 18 JAN 78						
85	7012214-00085	CI				
P. J. Jones 18 JAN 78						
86	7012214-00086	CJ				
P. J. Jones 18 JAN 78						
87	7012214-00087	CK				
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88	7012214-00088	CL				
P. J. Jones 18 JAN 78						
89	7012214-00089	CM				
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90	7012214-00090	CN				
P. J. Jones 18 JAN 78						
91	7012214-00091	CO				
P. J. Jones 18 JAN 78						
92	7012214-00092	CP				
P. J. Jones 18 JAN 78						
93	7012214-00093	CQ				
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94	7012214-00094	CR				
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95	7012214-00095	CS				
P. J. Jones 18 JAN 78						
96	7012214-00096	CT				
P. J. Jones 18 JAN 78						
97	7012214-00097	CU				
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P. J. Jones 18 JAN 78						
99	7012214-00099	CW				
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100	7012214-00100	CX				
P. J. Jones 18 JAN 78						
101	7012214-00101	CY				
P. J. Jones 18 JAN 78						
102	7012214-00102	CZ				
P. J. Jones 18 JAN 78						
103	7012214-00103	DA				
P. J. Jones 18 JAN 78						
104	7012214-00104	DB				
P. J. Jones 18 JAN 78						
105	7012214-00105	DC				
P. J. Jones 18 JAN 78						
106	7012214-00106	DD				
P. J. Jones 18 JAN 78						
107	7012214-00107	DE				
P. J. Jones 18 JAN 78						
108	7012214-00108	DF				
P. J. Jones 18 JAN 78						
109	7012214-00109	DG				
P. J. Jones 18 JAN 78						
110	7012214-00110	DH				
P. J. Jones 18 JAN 78						
111	7012214-00111	DI				
P. J. Jones 18 JAN 78						
112	7012214-00112	DJ				
P. J. Jones 18 JAN 78						
113	7012214-00113	DK				
P. J. Jones 18 JAN 78						
114	7012214-00114	DL				
P. J. Jones 18 JAN 78						
115	7012214-00115	DM				
P. J. Jones 18 JAN 78						
116	7012214-00116	DN				
P. J. Jones 18 JAN 78						
117	7012214-00117	DO				
P. J. Jones 18 JAN 78						
118	7012214-00118	DP				
P. J. Jones 18 JAN 78						
119	7012214-00119	DQ				
P. J. Jones 18 JAN 78						
120	7012214-00120	DR				
P. J. Jones 18 JAN 78						
121	7012214-00121	DS				
P. J. Jones 18 JAN 78						
122	7012214-00122	DT				
P. J. Jones 18 JAN 78						
123	7012214-00123	DU				
P. J. Jones 18 JAN 78						
124	7012214-00124	DV				
P. J. Jones 18 JAN 78						
125	7012214-00125	DW				
P. J. Jones 18 JAN 78						
126	7012214-00126	DX				
P. J. Jones 18 JAN 78						
127	7012214-00127	DY				
P. J. Jones 18 JAN 78						
128	7012214-00128	DZ				
P. J. Jones 18 JAN 78						
129	7012214-00129	EA				
P. J. Jones 18 JAN 78						
130	7012214-00130	EB				
P. J. Jones 18 JAN 78						
131	7012214-00131	EC				
P. J. Jones 18 JAN 78						
132	7012214-00132	ED				
P. J. Jones 18 JAN 78						

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

D-UA-M7133-0-0
D-CS-M7133-0-2
D-CS-M7133-0-3
D-CS-M7133-0-4
D-CS-M7133-0-5
D-CS-M7133-0-6
D-CS-M7133-0-7
D-CS-M7133-0-8
D-CS-M7133-0-9
D-CS-M7133-0-10
D-CS-M7133-0-11
D-CS-M7133-0-12
D-CS-M7133-0-13
D-CS-M7133-0-14

KDF11-UA

KDFII-UA

MP01028

REV.

NUMBER
1A-3

Top

品

digital

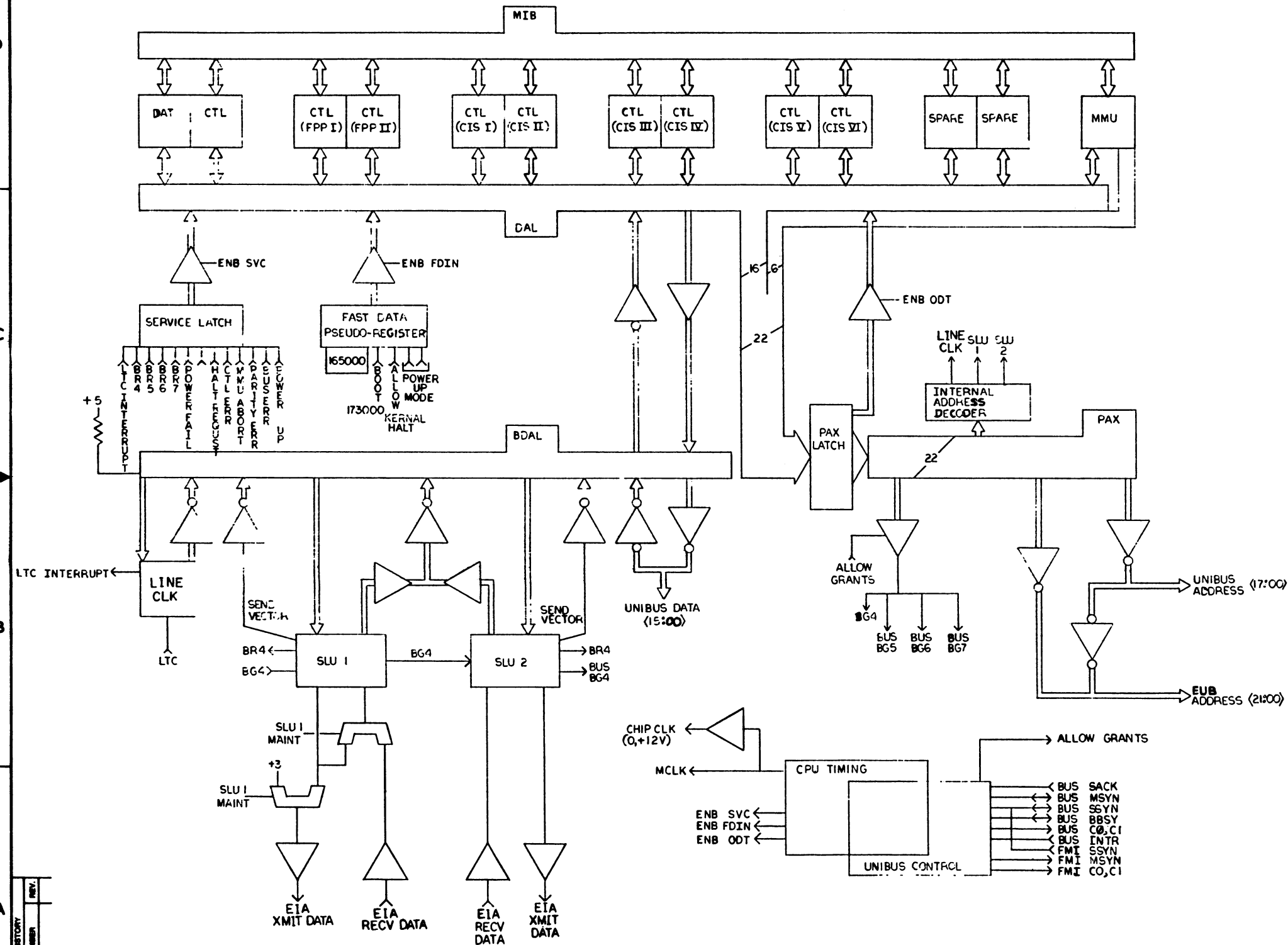
TITLE: 16BIT F11 UNIBUS
PROCESSOR (M7133)

SIZE B	CODE TC	NUMBER KDF11-UA-3	REV. B
DIST.			

DRB 124

TW

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DESIGNED BY G. GRAVES	DATE 28 APR 80	TITLE DATA PATHS BLOCK DIAGRAM (M7133)
CHECKED BY R. BRUNN	DATE 15 JAN 81	DOCUMENT NUMBER D80 KDFII-UA-1 A
DESIGNED BY R. BRUNN	DATE 15 JAN 81	
DESIGNED BY R. BRUNN	DATE 15 JAN 81	
DESIGNED BY R. BRUNN	DATE 15 JAN 81	
6-DO-KDFII-UA-0		SCALE NONE

1 TW

ADDRESS DECODE PLA E93 P/N 23055C6-00 TRUTH TABLES PAGE 1

LREADL 1
C0 1
IOPAGE 1
MAINTL 1
A11 1
A10 1
A9 1
A8 1
A7 1
A6 1
A5 1
A4 1
A3 1
A2 1
A1 1
A0 1
GPR 1111111100
KT 11111110
PSW 0 030000000000
SWR 0 000000000000
SR0 0 070000000000
SR1 0 000000000001
SR2 0 000000000000
SW3 0 000000000000
LTC 0 000000000000
RS1 1 010000011000
R31 0 000000011000
TS1 1 010000011000
T31 0 000001000000
RS2 1 010001000000
RB2 0 000000100000
TS2 1 010001000000
TP2 0 000001000000
DOUT 00
DIN 0
HOUT 11 0
LOUT 11 0
FSMAINT 1

NOTE MNEMONIC VALUE (SPACE=DON'T CARE)

TITLE							SHEET 2 OF 11			SIZE	CODE	DOCUMENT NUMBER	REV
D	I	S	I	T	A	L	KDF11-UA (1124)			K	GL	KDF11-UA-2	A
PLA INFORMATION													

DEFINITIONS

```

INVERTIN 3
INVERTOUT 662000000000
INPUTS "LREADL,CJ,I7PAGE,MAINTL,A11,A10,A9,A8,A7,A6,A5,A4,A3,A2,A1,A0"
OUTPUTS "INTADDL,INTSSYNL,X,ENBWTL,ENBRDL,DA2,DA1,DA0"
RADIX OCTAL
BIND "0011111111110000"
GPR=0377J2
END
BIND "0011111111230000"
K1=037600
END
BIND "001011111111110"
PS0=027776 ;"ADDRESS OF THE PROC. STATUS WORD"
SWR=027570 ;"ADDRESS OF THE SWITCH REGISTER"
SR0=027572 ;"MEMORY MANAGEMENT STAT. REG. 0"
SR1=027574 ;"MEMORY MANAGEMENT STAT. REG. 1"
SR2=027576 ;"MEMORY MANAGEMENT STAT. REG. 2"
SR3=022510 ;"MEMORY MANAGEMENT STAT. REG. 3"
LTC=027546 ;"LINE TIME CLOCK ADDRESS"
RS1=027560 ;"RECEIVE CSR 1"
RB1=027562 ;"RECEIVE BUFFER 1"
TS1=027554 ;"TRANSMIT CSR 1"
TB1=027566 ;"TRANSMIT BUFFER 1"
RS2=026500 ;"RECEIVE CSR 2"
RB2=026502 ;"RECEIVE BUFFER 2"
TS2=026504 ;"TRANSMIT CSR 2"
TB2=026506 ;"TRANSMIT BUFFER 2"
END
BIND "1100000000000000"
DOUT=100000 ;"DATA OUT OPERATION"
END
BIND "1000000000000000"
DIN=0 ;"DATA IN OPERATION"
END
BIND "1100000000000001"
HROUT=140001 ;"HIGH BYTE DATA OUT"
LROUT=140000 ;"LOW BYTE DATA OUT"
END
BIND "0001000000000000"
FSMAINT=0 ;"MAINTENANCE SELECT"
END
DATAPATHS
OUT=INTADDL,INTSSYNL,X,ENBWTL,ENBRDL,DA2,DA1,DA0
END

```


MNEMONIC VALUE (SPACE=DOV'T CARE)

AI02 1
AI01 1
AI00 1
CT0 1
CT1 1
LREAD 1
0 1
MCLK 1
EN6PET4 1
C0 1
BUSREQ 1
PAUSE 1
BUSCYC 1
PT2_4 1
MMUCYC 1
FSMAINT 1
COUNT0 20
COUNT1 10
COUNT2 01
COUNT3 11
AWD 000 0 1
ARW 001 0 1
ARD 011 0 1
DOUTB 100 0 1
DOUT 101 0 1
DIN 110 0 1
NOP 111 0 1
DAT0 12 0 1

D I S I T A L								TITLE		KDF11-UA (1124)		SHSET 6 OF 11		SIZE	CODE	DOCUMENT NUMBER		REV
										PLA INFORMATION				K	SL	KDF11-UA-2		A

STATISTICS

NUMBER OF INPUTS = 16
NUMBER OF OUTPUTS = 9
NUMBER OF TERMS = 34
"1" INPUT DETECTIONS = 110
"0" INPUT DETECTIONS = 72
DON'T CARES = 362
NUMBER OF TERMS DRIVING MORE THAN ONE OUTPUT = 0

D I G I T A L							TITLE		KDF11-UA (1124)		SHEET 8 OF 11		SIZE	CODE	DOCUMENT NUMBER		REV
									PLA INFORMATION				X	GL	KDF11-UA-2		A

DEFINITIONS

```
INVERTIN 2
INVERTOUT 002000000000
INPUTS "AI02,AI01,AI00,CT0,CT1,LREAD,2,VCLK,ENBPBT4,C0,BUSREQ,PAUSE,BUSCYC,PT2_4,4MUCYC,FS MAINT"
OUTPUTS "0,LA7ADD,PAUSE0,C20,DINO,BUSREQ0,LREAD0,CHGCLK0,NULL"
RADIX OCTAL
BIND "0001100000000000"
COUNT0=000000
COUNT1=010000
COUNT2=004000
COUNT3=014000
END
BIND "1110000100000100"
AWO=000004
ARW=020004
ARQ=060004
DOUTB=100004
DOUT=120004
DIN=140004
NOP=160004
END
BIND "1100000100000100"
DATO=100004
END
```

TITLE										SHEET 9 OF 11		SIZE	CODE	DOCUMENT NUMBER		REV
D	I	S	I	T	A	L						K	GL	KDF11-UA-2		A
KDF11-UA (1124)																
PLA INFORMATION																

TIMING DIAGRAMS AND DEFINITIONS

"MCLK, ENBPBT4, BUSCYC AND FS MAINT INPUT SIGNALS ARE ASSERTED LOW

"PT1= PHASE TIME ONE
"PT2=PHASE TIME TWO (USED FOR AIO DECODE)
"PT3=PHASE TIME THREE (USED IN BUS DATA CYCLES, THE OSC CLOCK TURNS OFF , GETS RESTARTED BY SSYN)
"ALSO USED IN ADDRESS AND LOCAL DATA CYCLES.
"PT4=PHASE TIME FOUR (USED ONLY IN A DATA IN CYCLE FOR DATA DESKEW)
"PBT1=PHASE BAR TIME ONE
"PBT2=PHASE BAR TIME TWO
"PBT3=PHASE BAR TIME THREE (RELOCATED ADDRESS STROBED , IF MMU CYCLES)
"PBT4=PHASE BAR TIME FOUR

" S T A N D A R D 3 0 0 N S . C Y C L E
" PBT2 PBT1 , PBT2 PBT1
" I PT1 , PT2 I I PT1 , PT2 I

" K T R E L O C A T I O N C Y C L E
" PBT2 PBT1 , PBT2 , PBT3 , PBT4
" I PT1 , PT2 , PT3 I I PT1 ,

" K T R E L O C A T I O N C Y C L E W I T H A B O R T
" PBT2 PBT1 , PBT2 , PBT3 , PBT4
" I PT1 , PT2 , PT3 I I PT1 ,

" S T A N D A R D A D D R E S S C Y C L E
" PBT2 PBT1 , PBT2
" I PT1 , PT2 , PT3 I I PT1 ,

" D A T A O U T (B) C Y C L E
" O R L O C A L O U T (B)
" PBT2 PBT1 , PBT2 PBT1
" I PT1 , PT2 , PT3 I I PT1 , PT2 I

" D A T A I N C Y C L E
" PBT2 PBT1 , PBT2 PBT1
" I PT1 , PT2 , PT3 , PT4 I I PT1 , PT2 I

D I G I T A L										TITLE										KDF11-UA (1124)										SHEET 10 OF 11										SIZE CODE										DOCUMENT NUMBER										REV									
										PLA INFORMATION																														K GL										KDF11-UA-2										A									

EQUATIONS

CHGCLKO=-VCLK.COUNT1.NOP
CHGCLKO=-VCLK.COUNT2.-AIO2
CHGCLKO=-MCLK.BUSCYC.COUNT2.DIN
CHGCLKO=-VCLK.DATO.COUNT2
CHGCLKO=-MCLK.DIN.COUNT3.-BUSCYC
CHGCLKO=MCLK.ENBPBT4.-MMUCYC.COUNT1
CHGCLKO=MCLK.COUNT3.-MMUCYC.-ENBPBT4
CHGCLKO=MCLK.COUNT3.MMUCYC
NULL=MCLK.COUNT0.-ENBPBT4.MMUCYC
C00=AR.
C00=DOUTB
C00=C0.AIO2.PT2_4
C00=C0.COUNT2.-PAUSE
C00=C0.MCLK.ENBPBT4

;
;RESET MCLK ON PT2 IF AIO=NOP
;RESET MCLK ON PT3 IF AN ADDRESS TYPE INST (AIO2=0)
;RESET MCLK ON PT3 IF A LOCAL DIN
;RESET MCLK ON PT3 IF A DATO(B)
;RESET MCLK ON PT4 IF A DATA IN
;SET MCLK ON PPT2 IF NEITHER MMUCYC NOR ENBPBT4 SET
;SET MCLK ON PBT4 IF A REGULAR RESET
;SET MCLK ON PBT4 IF A MMU CYCLE
;THIS TERM IS FOR AN ENGINEERING FIX ONLY, IT WILL NOT ACTIVATE ANY OUTPUT
;SET ON ARW (DATA IN PAUSE)
;SET ON DOUTB (DATA OUT BYTE)
;STAY LATCHED DURING PT2_4 IF NOT ADDRESS TYPE INST
;STAY LATCHED DURING PT1 IF PAUSE=0
;STAY LATCHED DURING -MCLK UNLESS A CHIP RESET

LREADO=ARO
LRIAD7=ARW
LREADO=LREAD.MCLK.ENBPBT4
LREADO=LREAD.COUNT0.-PAUSE.-BUSCYC
LREADO=LREAD.AIO2.PT2_4
LREADO=LREAD.AIO1.PT2_4
LREADO=LREAD.AIO0.PT2_4

;
;SET ON ARO (ADDRESS LEAD ONLY)
;SET ON ARW (ADDRESS READ/WRITE , DATIP)
;STAY LATCHED WHILE MCLK=0 UNLESS A CHIP RESET
;STAY LATCHED DURING PT1 WHILE PAUSE =0 AND BUSCYC=1
;THE NEXT THREE TERMS KEEP LREAD LATCHED-
;DURING PT2_4 UNLESS AIO=AWO (ADDRESS WRITE ONLY)

BUSREQQ=FS MAINT.DATO.-BUSCYC.-CT1
BUSREQQ=FS MAINT.LREAD.-MMUCYC.MCLK.-BUSCYC.-PAUSE

BUSREQQ=FS MAINT.LREAD.MMUCYC.MCLK.COUNT2.-BUSCYC.-PAUSE
BUSREQQ=FS MAINT.BUSREQ.MCLK.-BUSCYC.ENBPBT4
BUSREQQ=FS MAINT.BUSREQ.-MCLK.COUNT0
BUSREQQ=FS MAINT.BUSREQ.-VCLK.PT2_4.NOP
BUSREQQ=FS MAINT.BUSREQ.DIN.-MCLK.-CT1
BUSREQQ=FS MAINT.BUSREQ.DIN.-MCLK.-CT1

;
;BUSREQ WILL NOT SET IF IN FS MAINT
;SET BUSREQ ON A DATO(B) IF BUSCYC=1, RESET ON PT3
;SET BUSREQ AT MCLK(PBT1) AND BUSCYC=1
;AND PAUSE =0 IF NOT MMUCYC
;SET BUSREQ IF DATI AND MMUCYC ON PBT2
;KEEP IT LATCHED DURING -MCLK WHILE BUSCYC=1 UNLESS A CHIP RESET
;KEEP IT LATCHED DURING PT1
;KEEP IT LATCHED IF AIO=NOP
;THESE TWO TERMS KEEP IT LATCHED IF A DATA IN --
;-TILL PT4. PT4 IS USED AS THE SSYN DESKEW (75 NS)

DINO=DIN.-BUSCYC.PT2_4.-MCLK

PAUSEO=COUNT2.LREAD.C0.-BUSCYC.DIN
PAUSEO=PAUSE.-BUSCYC.ENBPBT4

LATADD=MCLK.COUNT2.MMUCYC.FS MAINT
LATADD=-AIO2.COUNT2.-MCLK.FS MAINT

;
;SET DIN ON AIO=DIN WHILE IN PT2_4 AND BUSCYC=1

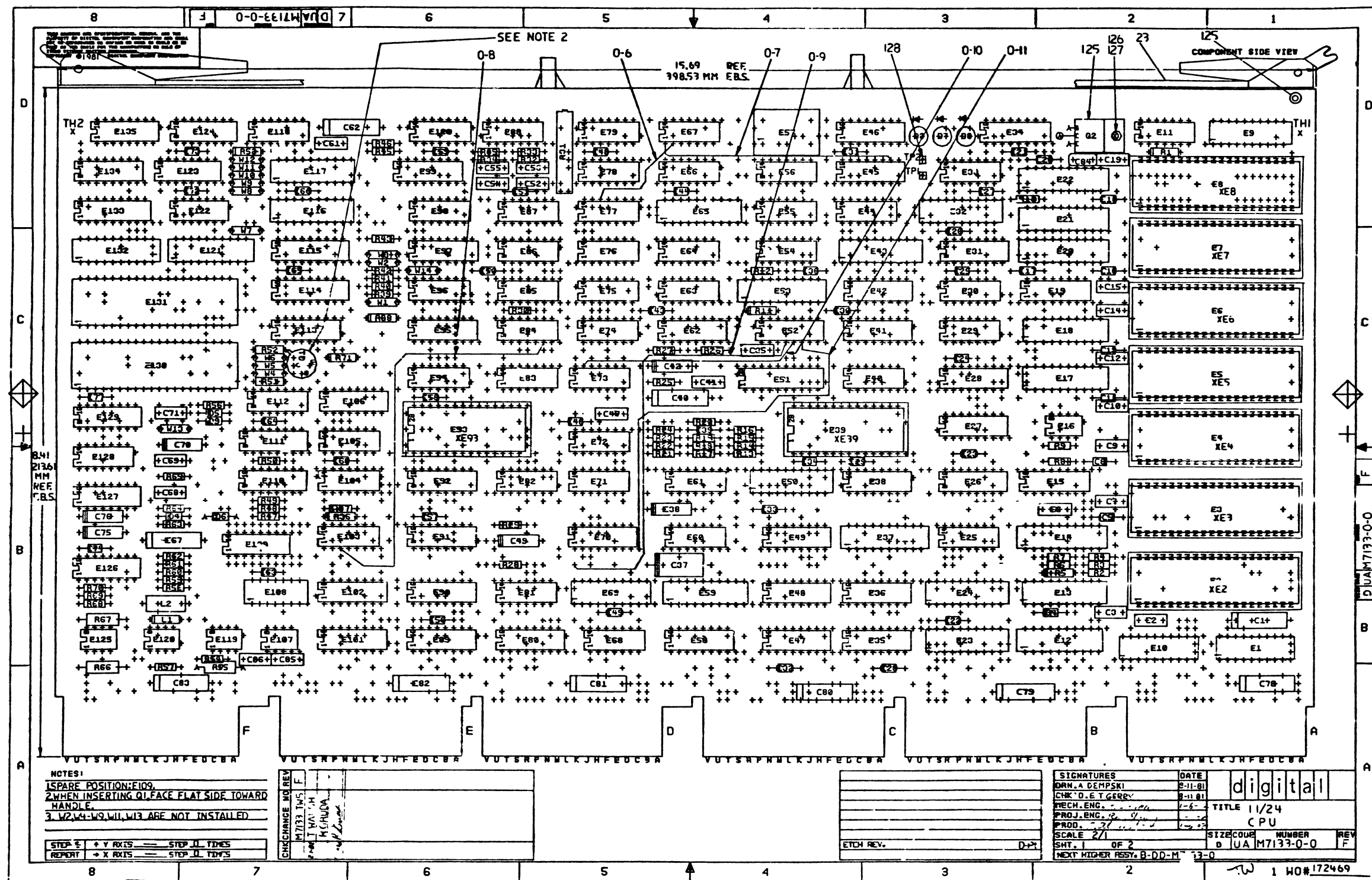
;SET PAUSE IF A DIN AND PT3 AND BUSCYC AND LREAD AND C0
;STAY LATCHED WHILE BUSCYC=1 UNLESS A CHIP RESET

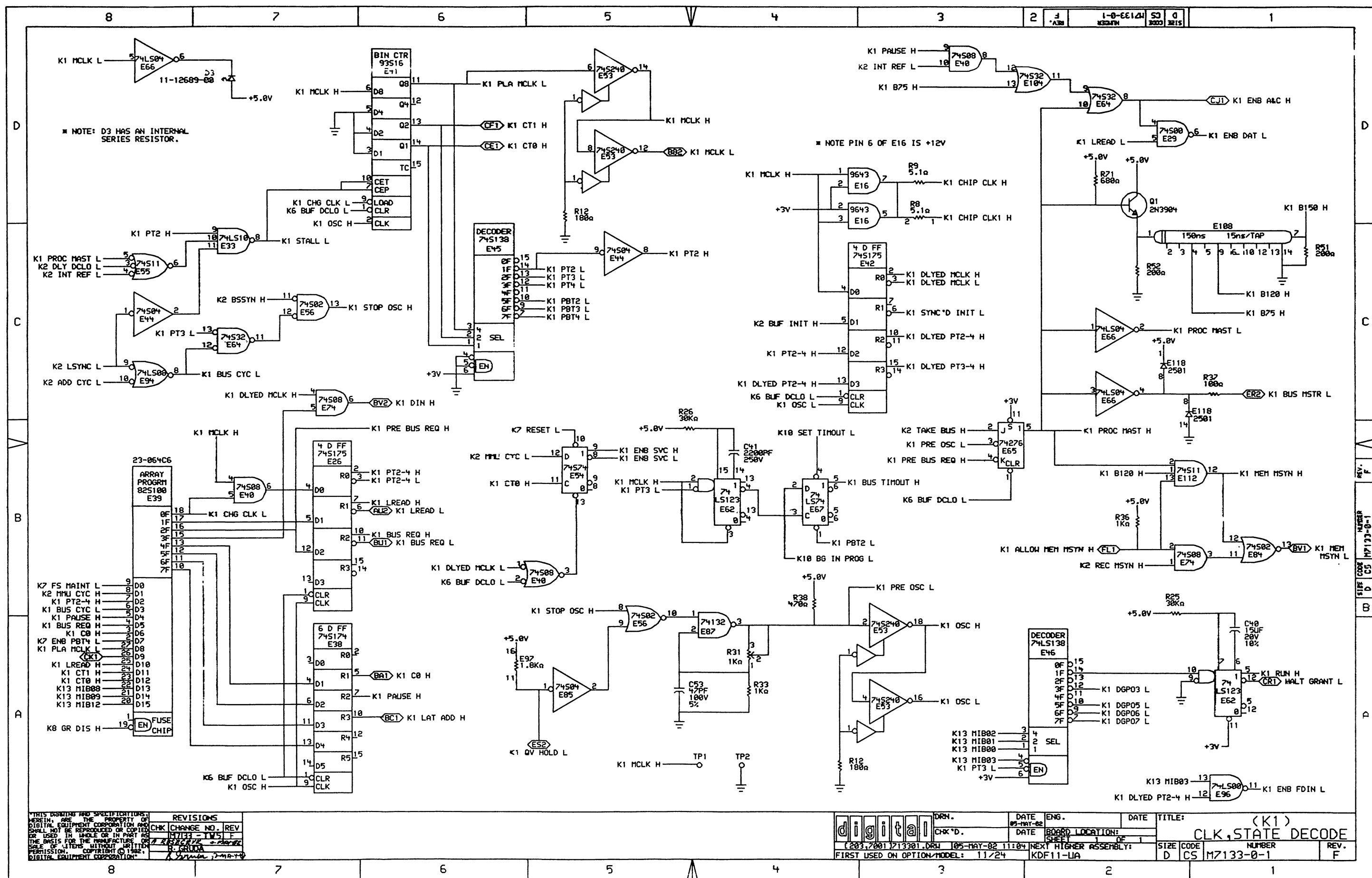
;SET LATADD DURING PBT4
;SET LATADD ON PT3 WHILE AIO2=0 (ADDRESS CYCLE)

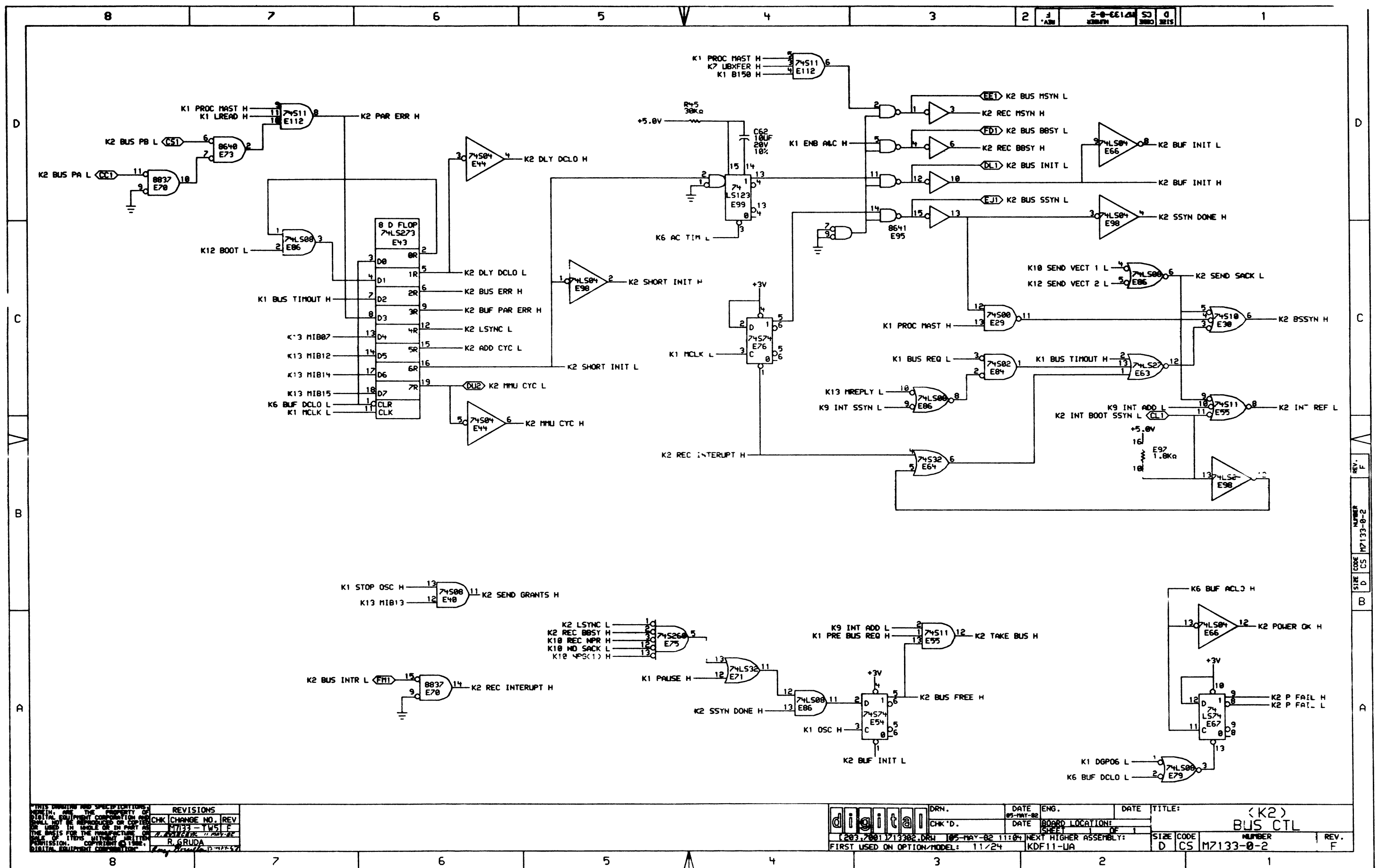
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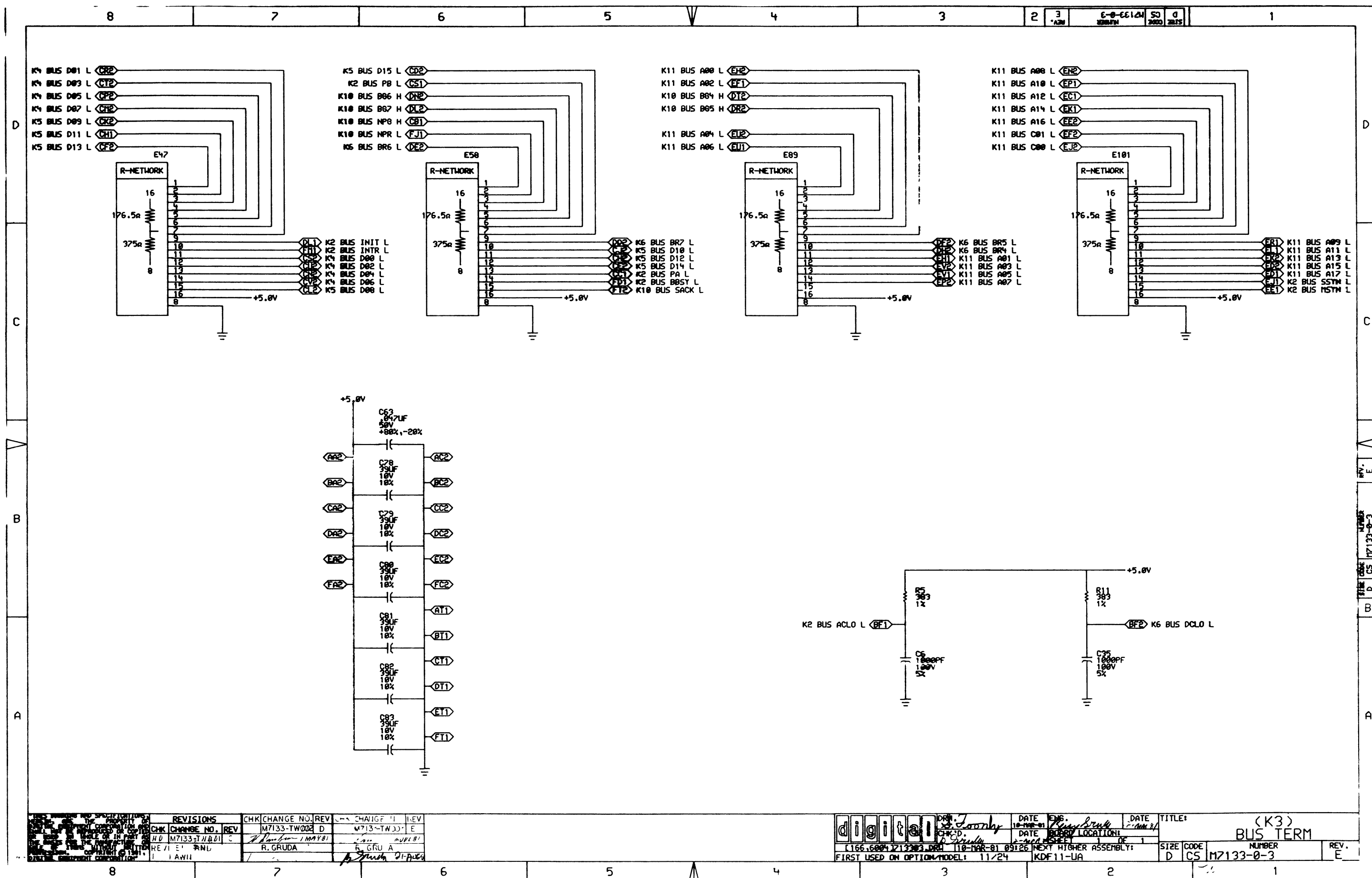
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D	I	S	I	T	A	L				YDF11-UA (1124)	SHEET	11	OF	11
										PLA INFORMATION				
											K	GL	KDF11-UA-2	A

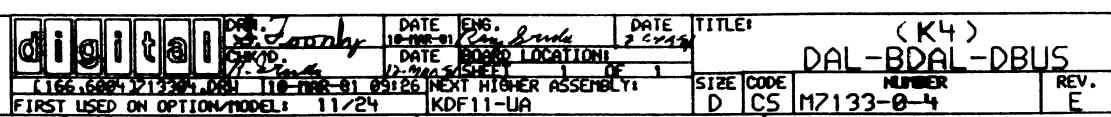
DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:					
MADE BY DATE		A. ROCHA 11 DECEMBER 80		CHECKED DATE		R. Srinan 1-15-81		SECTION													
ENG DATE		R. Srinan 1-15-81		PROD DATE		R. Srinan 1-15-81		ISSUED SECTION													
ITEM NO.		DRAWING NO.		PART NO.		DESCRIPTION		KDF11-UA													
1		D-BD-KDF11-UA-1		KDF11-UA-1		BLOCK DIA KDF11		1													
2		D-UA-M7133-0-0		M7133		CPU Module		1													
3		K-GL-KDF11-UA-2		KDF11-UA-2		OPTION.TXT		1													
4				ZJ013		LIBKIT (CPU 11/24)		REF													
5				MP01028		KDF11-UA MAINTENANCE PRINT SET		1													
E.C.O. NO.		TWO																			
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						16 BIT F11 UBUS PROC. (M7133) SHIP LIST				B-DD-KDF11-UA-0				B	PL	KDF11-UA-4	B				
										SHEET 1 OF 1				INSERTION PARTS LIST DATA BASE REV							

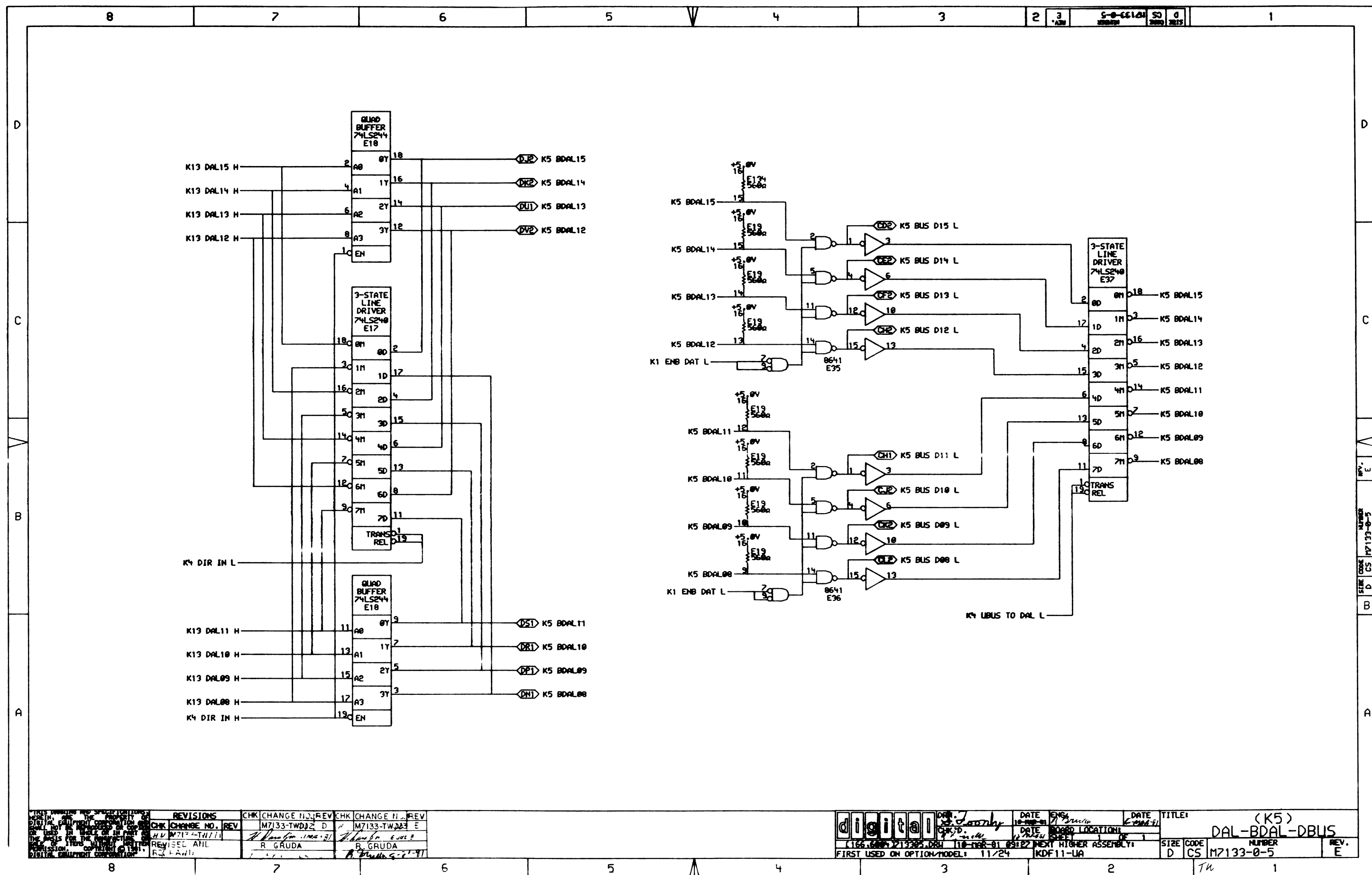


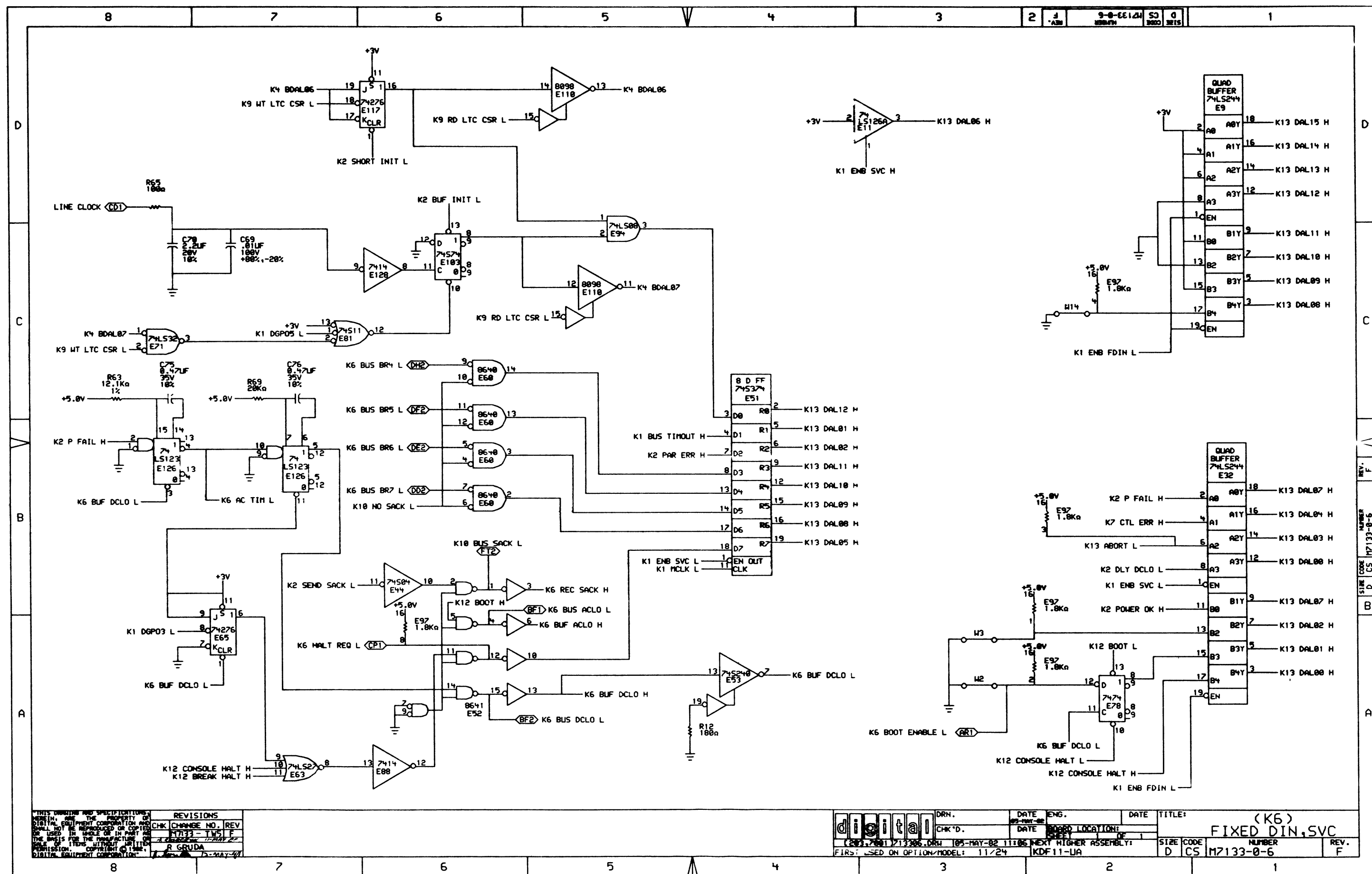


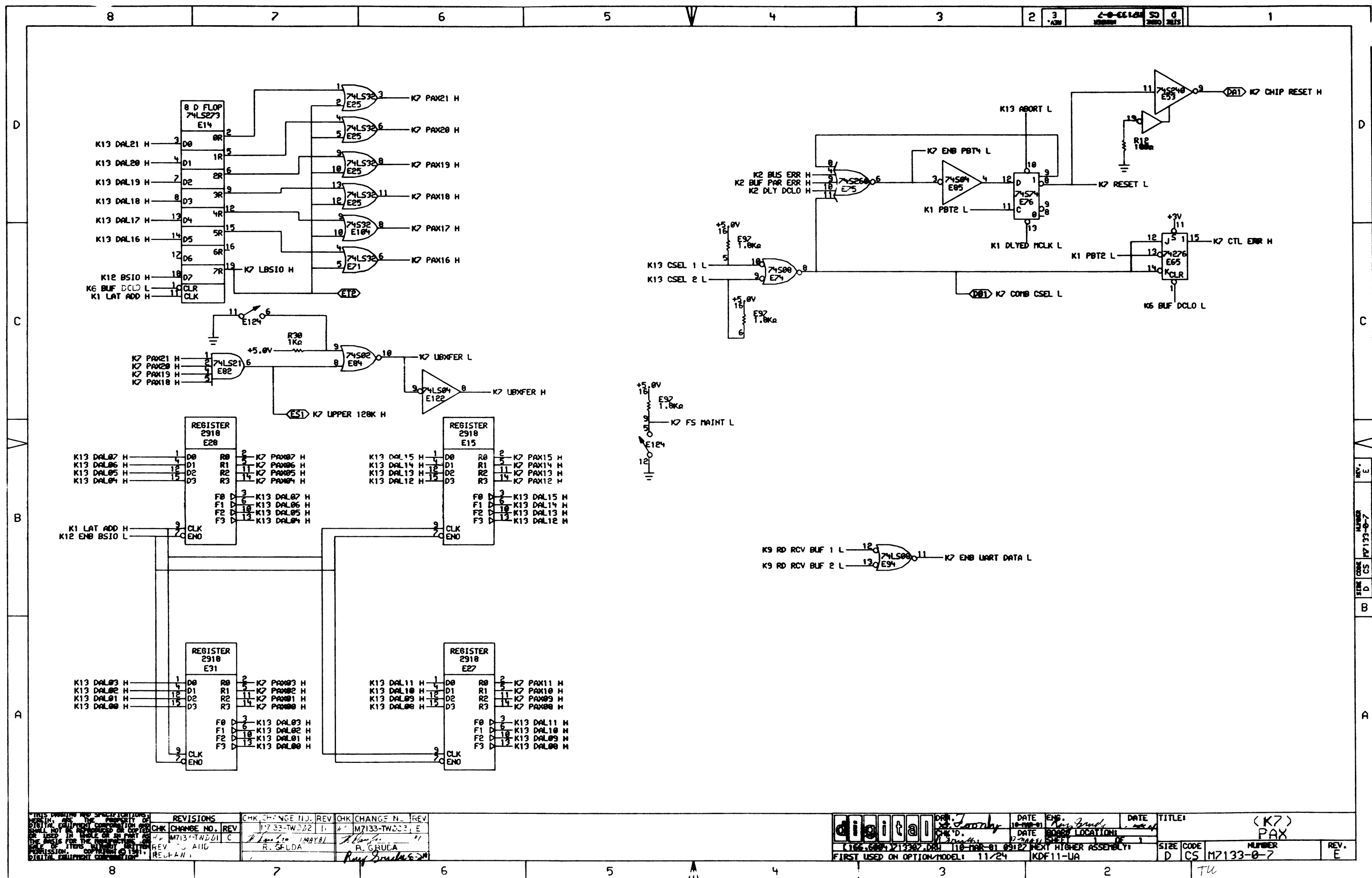


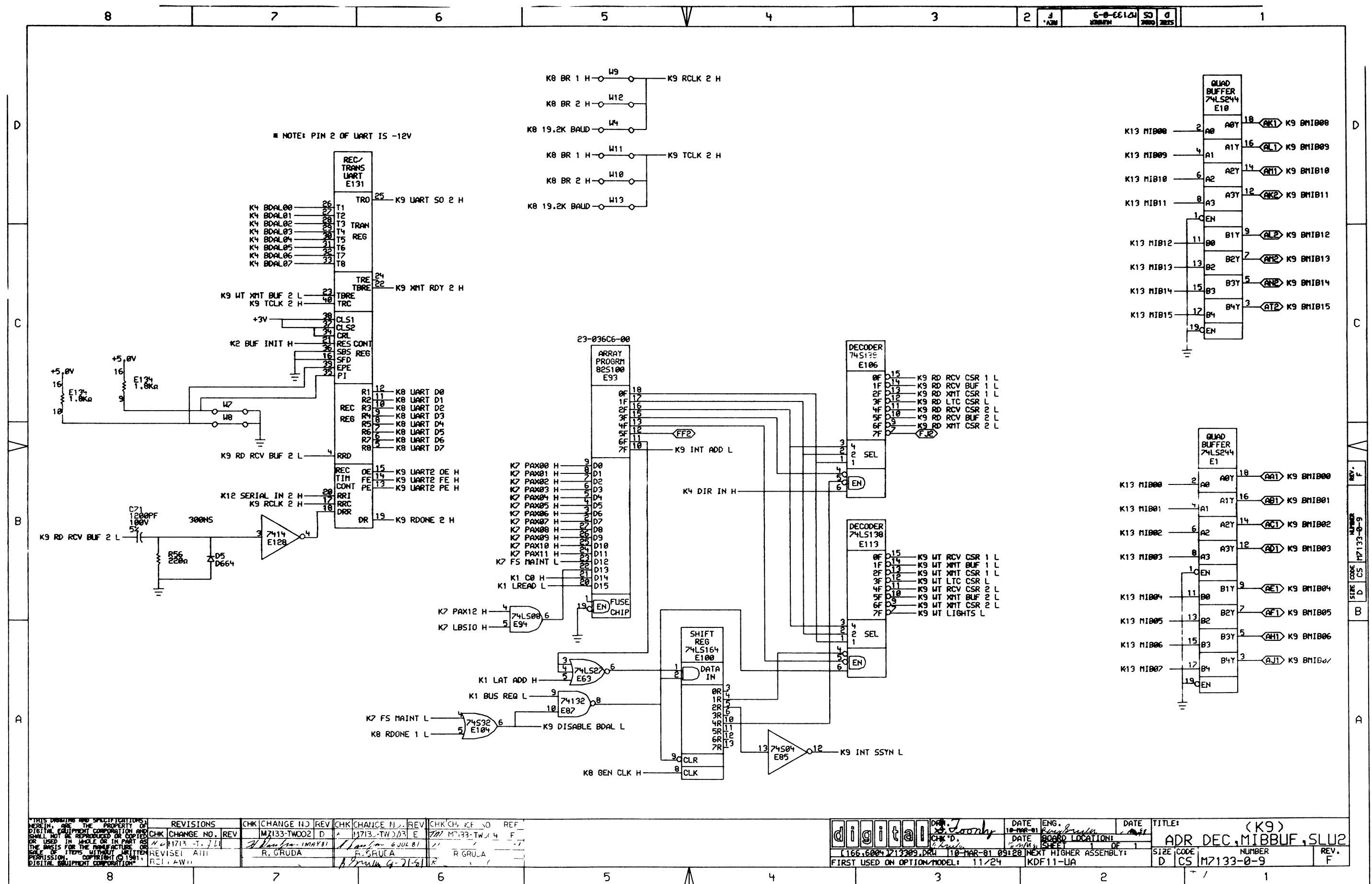


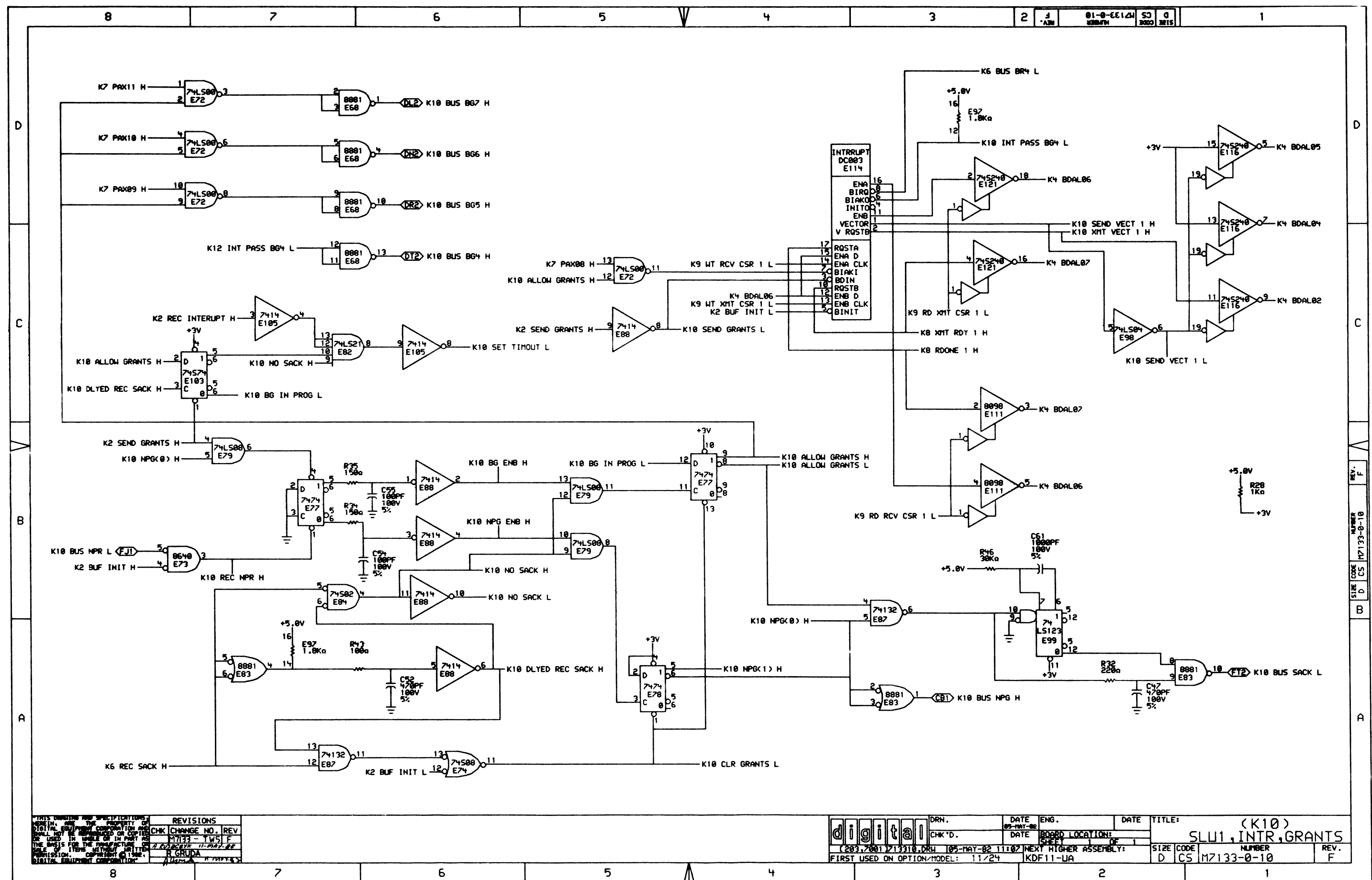


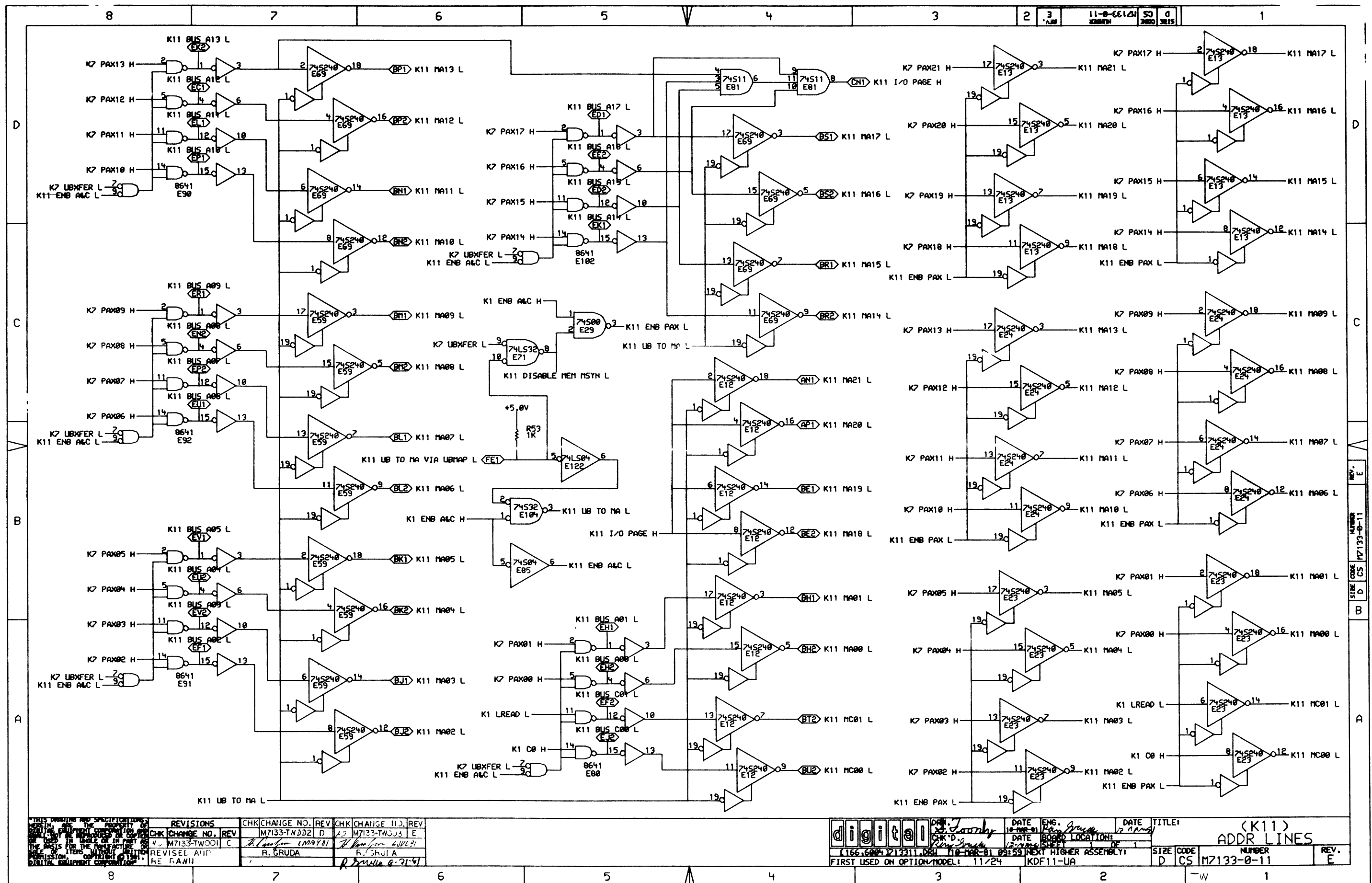


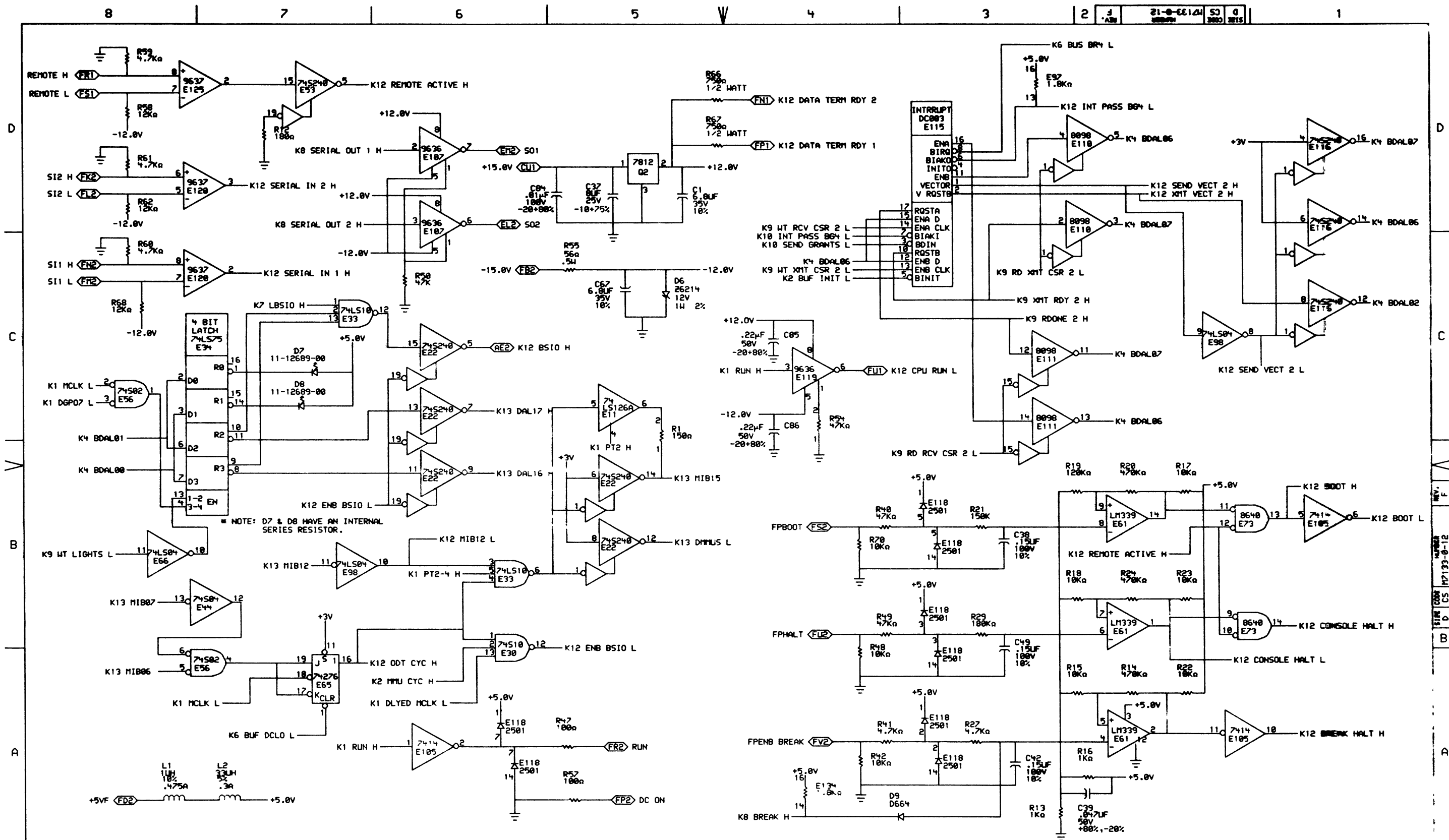








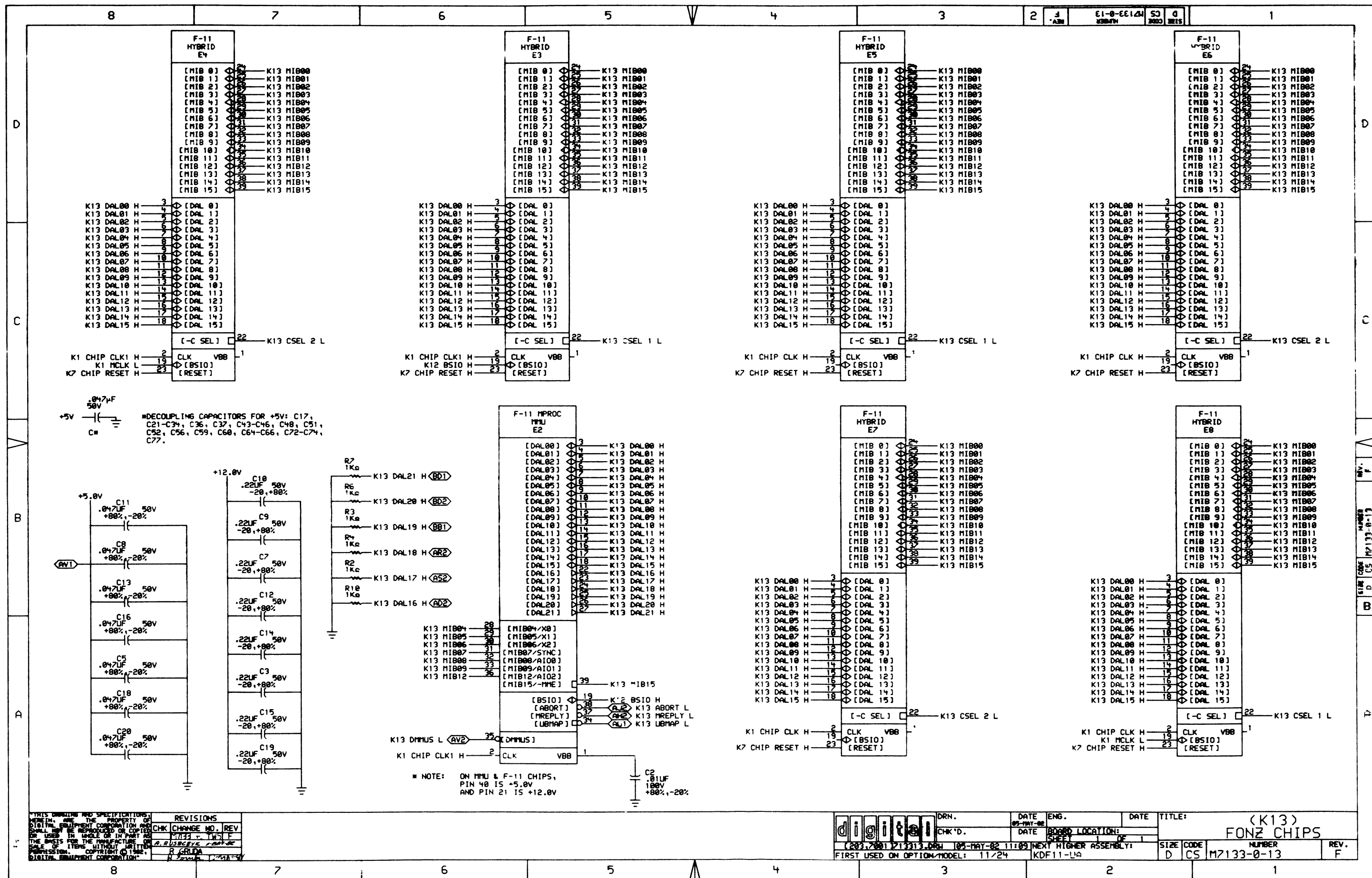




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REVISIONS		
CHK	CHANGE NO.	REV
M7133	-TWS	F
A. GILDA		

digital		DRN.	DATE	ENG.	DATE	TITLE:
CHK'D.			05-MAY-82			(K12)
203,7001213312.DRN			05-MAY-82			SC,INTR,VREG,FPNL
FIRST USED ON OPTION/MODEL: 11-24						
SIZE	CODE	NUMBER	REV.			
D	CS	M7133-0-2	F			



8

7

6

5

4

3

2

3

41-0-66101

S3

0

1

BAUD RATES

THERE ARE TWO SIMULTANEOUS BAUD RATES AVAILABLE.
BAUD RATE 1 IS SELECTED USING SWITCHES 5,6,7, & 8 OF E135.
BAUD RATE 2 IS SELECTED USING SWITCHES 1,2,3, & 4 OF E135.
BOTH ARE ACCORDING TO THE SWITCH SETTING PATTERN SHOWN BELOW.

SWITCH E135				
BAUD RATE 1 (K8 BR1)	5	6	7	8
BAUD RATE 2 (K8 BR2)	1	2	3	4
BAUD RATES:	50	ON	ON	ON
	75	ON	ON	OFF
	110	ON	ON	OFF
	134.5	ON	ON	OFF
	150	ON	OFF	ON
	200	ON	OFF	OFF
	300	ON	OFF	ON
	600	ON	OFF	OFF
	1200	OFF	ON	ON
	1800	OFF	ON	OFF
	2000	OFF	ON	ON
	2400	OFF	ON	OFF
	3600	OFF	OFF	ON
	4800	OFF	OFF	OFF
	9600	OFF	OFF	ON
	19200	OFF	OFF	OFF

(IF REMOTE ACTIVE H IS ASSERTED, THEN 19200 IS ANY SETTING.)

SLU 1/SLU 2
BAUD RATE SELECTION

SLU 1

SWITCH E124				
	1	2	3	4
XM1T RATE (K8 XM1T CLK 1)				
BAUD RATE 1	OFF	ON	---	---
BAUD RATE 2	ON	OFF	---	---
RCVR RATE (K8 RCVR CLK 1)				
BAUD RATE 1	---	---	ON	OFF
BAUD RATE 2	---	---	OFF	ON

SLU 2

JUMPERS						
	W4	W9	W10	W11	W12	W13
XM1T RATE (K9 TCLK 2)						
BAUD RATE 1	---	---	OUT	IN	---	OUT
BAUD RATE 2	---	---	IN	OUT	---	OUT
19.2K BAUD	---	---	OUT	OUT	---	IN
RCVR RATE (K9 RCLK 2)						
BAUD RATE 1	OUT	IN	---	---	OUT	---
BAUD RATE 2	OUT	OUT	---	---	IN	---
19.2K BAUD	IN	OUT	---	---	OUT	---

ODD/EVEN PARITY; STOP BITS

	SLU 1		SLU 2	
	W5	W6	W7	W8
ODD PARITY	---	IN	---	IN
EVEN PARITY	---	OUT	---	OUT
PARITY ENABLED	IN	---	IN	---
PARITY DISABLED	OUT	---	OUT	---
	W1			
ONE STOP BIT	IN			
TWO STOP BIT	OUT			

(REMOTE ACTIVE H DEFAULTS TO ONE STOP BIT)

NOTE: IF M9312 IS PRESENT,
M9312 S1-2 MUST BE OFF.

CLOCK SETUP PROCEDURE

1. PUT PROBE ON K1 MCLK L AT PIN B02
2. PUT MACHINE IN WAIT LOOP.
3. ADJUST POTENTIOMETER R31 WITH SCREWDRIVER UNTIL K1 MCLK L HAS A PERIOD OF 300ns.

SWITCH			
E124	5	ON	ENABLE FIELD SERVICE MAINT L
		OFF	NO FS MAINT
E124	6	ON	NO EFFECT ON LBWFER
		OFF	FORCES LBWFER L

JUMPERS	
POWER UP TO:	W14
165000	IN
173000	OUT
	W3
ALLOW HALTS	IN
KERNEL HALT TRAPS TO 10	OUT
	W2
BOOT ON POWER UP	IN
POWER UP VIA 24	OUT

REVISIONS		CHK	CHANGE NO.	REV	CHK	CHANGE NO.	REV
CHK	CHANGE NO.	REV	M7133-TW001	D	M7133-TW003	E	
REV	CHANGE NO.	REV	M7133-TW001	C			
REV	CHANGE NO.	REV					
REV	CHANGE NO.	REV					
REV	CHANGE NO.	REV					
REV	CHANGE NO.	REV					
REV	CHANGE NO.	REV					
REV	CHANGE NO.	REV					
REV	CHANGE NO.	REV					

digit@	DATE	ENG.	DATE	TITLE	(K14) SW, JMPR, CLK SETTINGS
DATE	10-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81
DATE	12-08-81	DATE	12-08-81	DATE	12-08-81

8

7

6

5

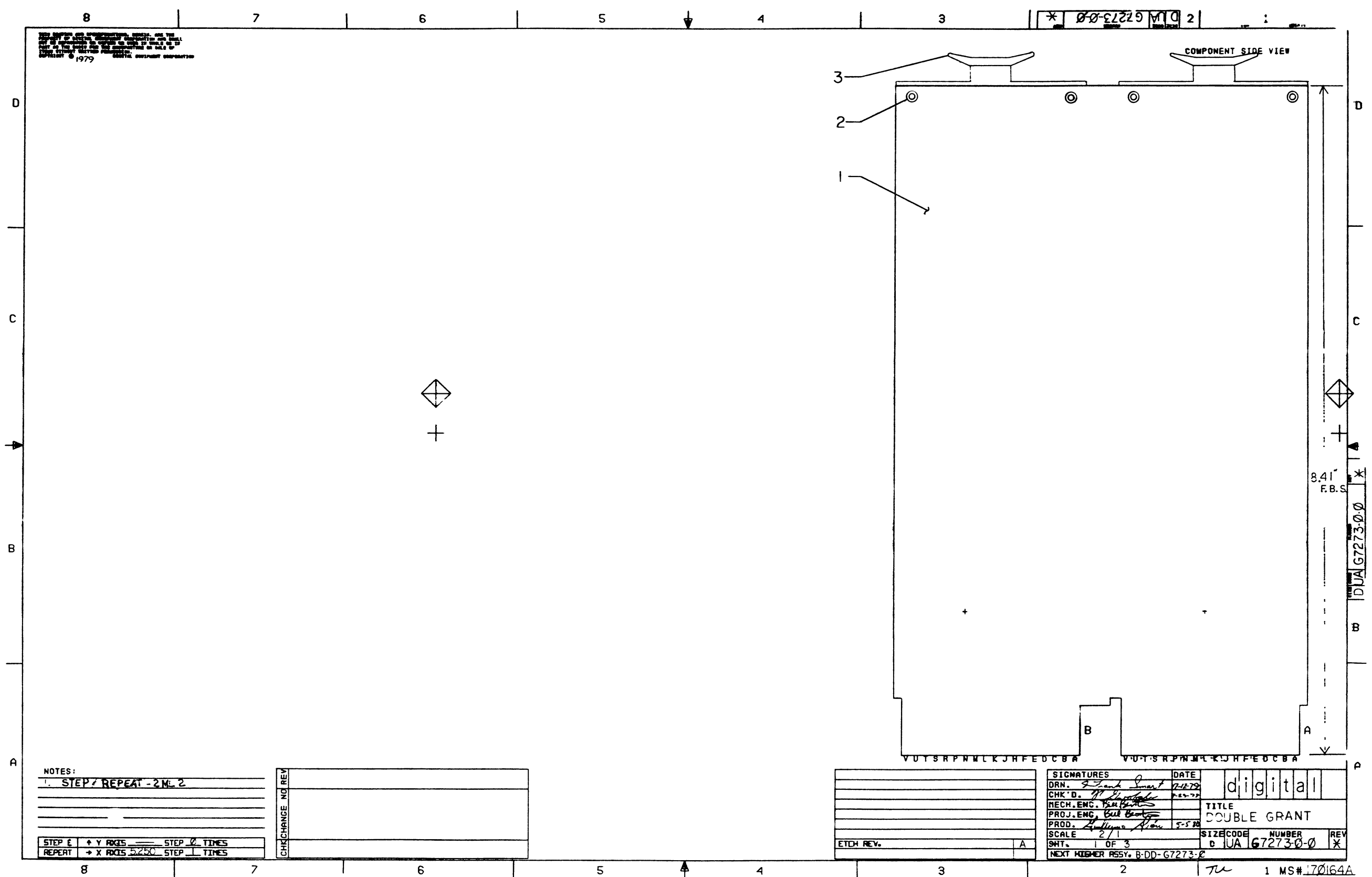
4

3

2

TW

1



NOTES:
1. STEP 7 REPEAT - 2 M. 2

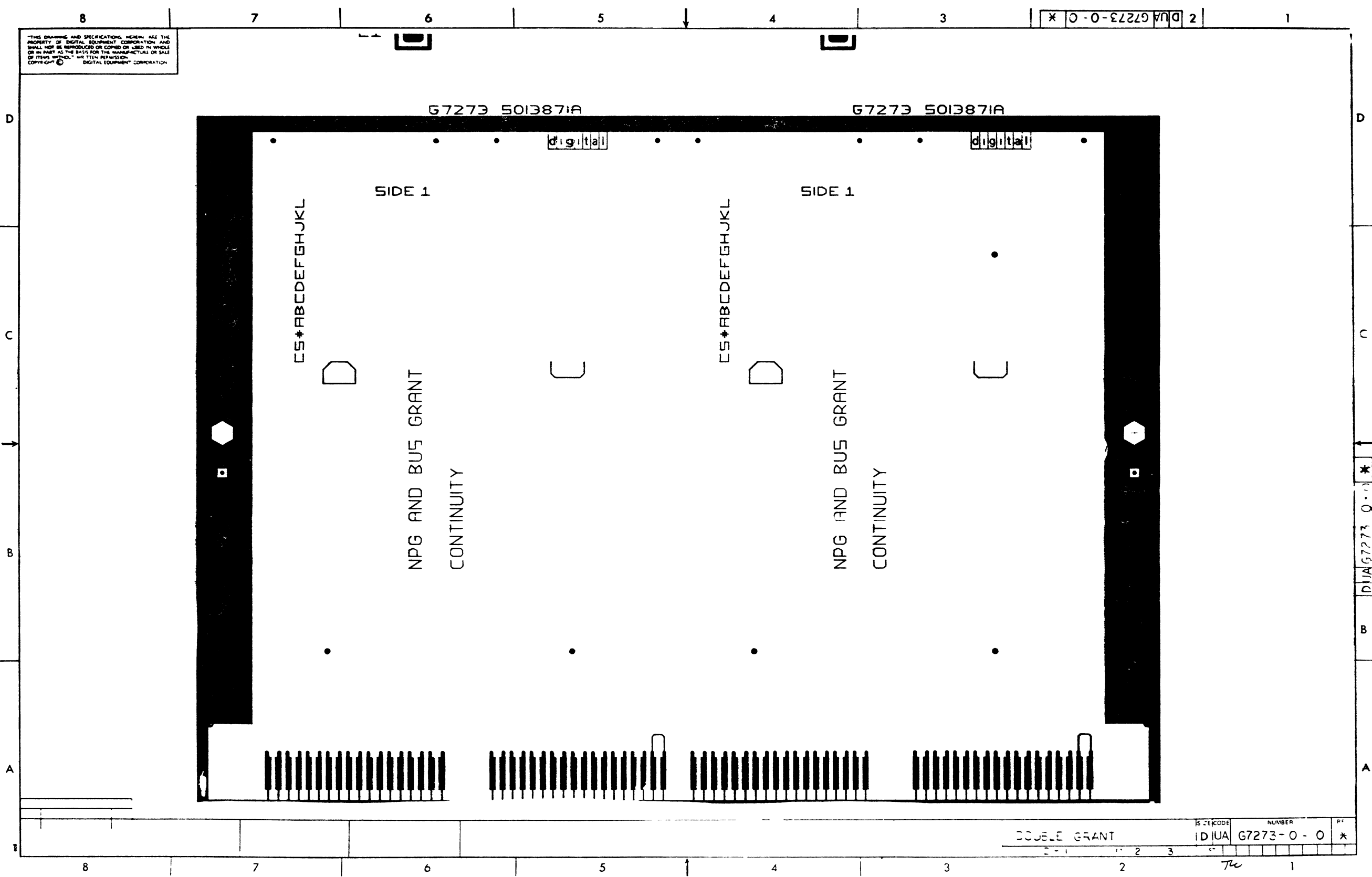
STEP E	+ Y REGS.	STEP 0	TINES
REPEAT	+ X REGS. 5.250	STEP 1	TINES

CHG	CHANGE	NO	REV

ETCH	REV.	A

SIGNATURES		DATE				
DRN.	<i>Frank Grant</i>	7-1-79	digital			
CHK'D.	<i>M. J. [unclear]</i>	7-1-79				
MECH. ENG.	<i>B. M. [unclear]</i>		TITLE			
PROJ. ENG.	<i>B. M. [unclear]</i>		DOUBLE GRANT			
PROD.	<i>Anthony [unclear]</i>	5-5-78				
SCALE	2/1		SIZE CODE	NUMBER	REV	
SMT.	1 OF 3		0 UA	67273-0-0	*	
NEXT HIGHER ASSY. B-DD-67273-0						

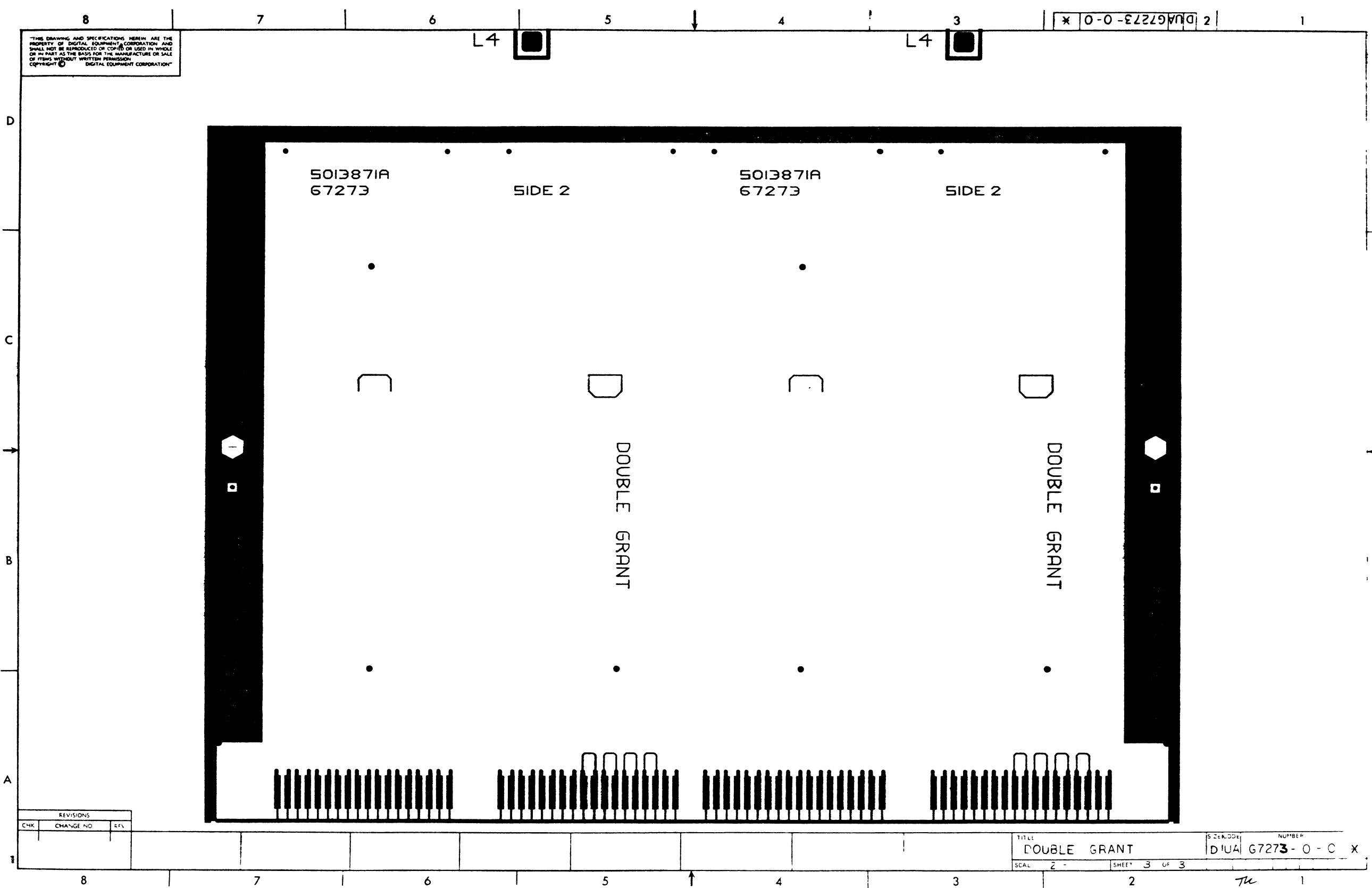
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DOUBLE GRANT

IS CODE	NUMBER	REV
1D1UA	G7273-0-0	*

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REVISIONS		
CHK	CHANGE NO	REV

TITLE DOUBLE GRANT		SERIAL DUA	NUMBER G7273-0-C
SCALE 2"	SHEET 3	OF 3	

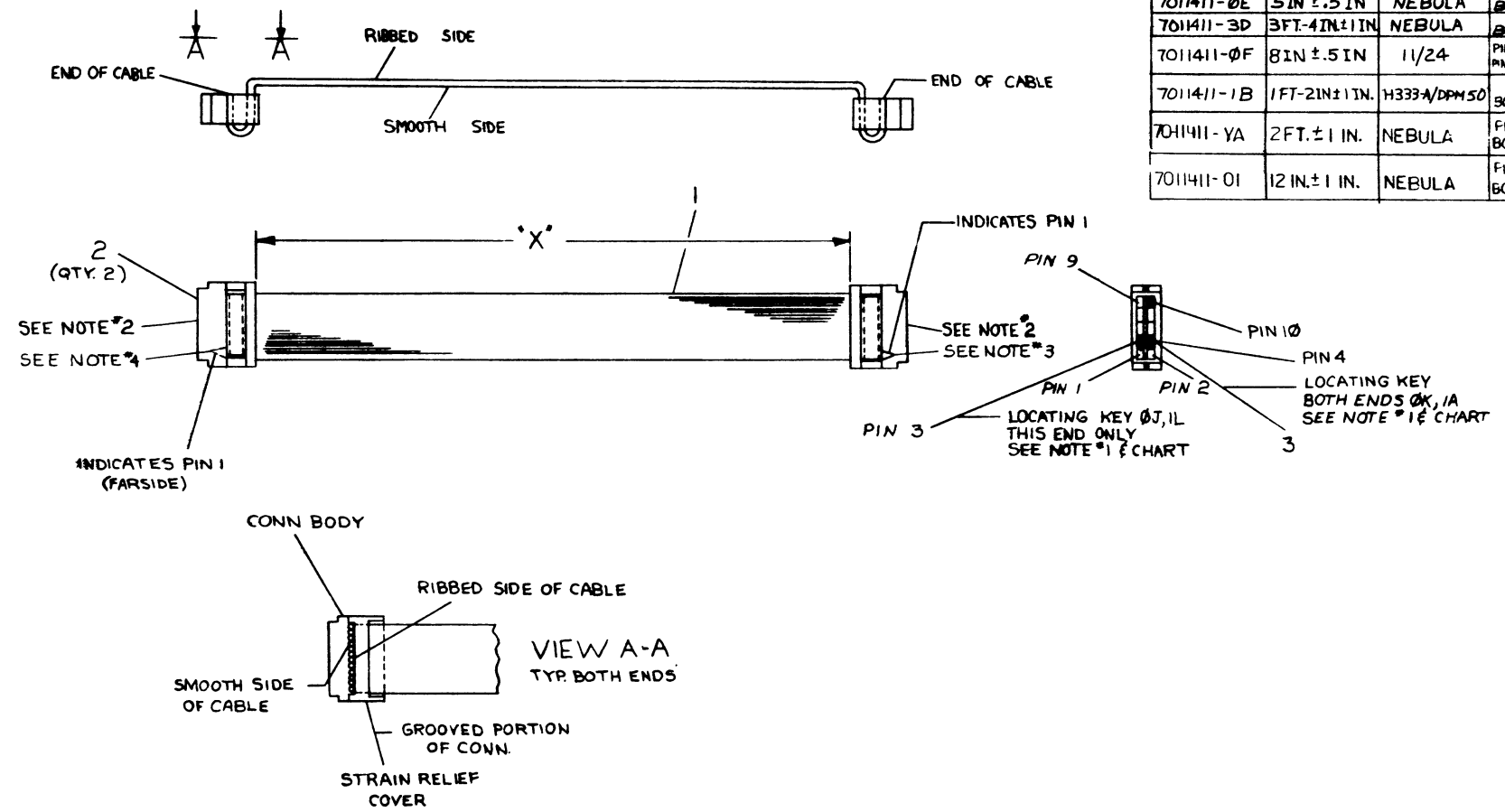
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
					00
1	1	D-MD-5013871-0-0	5013871-00	(11/24) BOARD FOR G7273	1
2	2		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	4
3	3		9008337-01	HANDLE, FLIP CHIP, GREEN	2

REVISION HISTORY		BASIC PART NO: G7273		DRN: F.SMART		DATE: 18-JUL-79		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: F.GAROFALO		DATE: 18-JUL-79		TITLE PARTS LIST	
---	INITIAL	*	SECTION. VARIATION INDEX	[A] CO				DOUBLE GRANT	
			[B]	DES.ENG.: R.GRUDA		DATE: 5-MAY-80			
			[C]	RESP.ENG.: R.GRUDA		DATE: 5-MAY-80		DOCUMENT NUMBER	
			[D]					SIZE CODE NUMBER REV	
			[E]	MFG.ENG.: G.ABREU		DATE: 5-MAY-80		K PL G7273-0-DBF *	
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
				D-UA-G7273-0-0		B-DD-G7273-0-0		Z1264.PLS 4	
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LEGEND			
NUMBER	DIM. X VARIATION	USED ON	KEY PIN
7011411-0J	8 IN ± .5 IN	BA11-L OR K	10 ONE END
7011411-0K	9 IN ± .5 IN	LS1-11	4 BOTH ENDS
7011411-ID	1 FT-4 IN ± 1 IN	KY11-LB	
7011411-2D	2 FT-4 IN ± 1 IN	BA11-FDD RPF	70 ONE END
7011411-0H	7 IN ± .5 IN	H794, 1, 2, 3	
7011411-1J	1 FT-8 IN ± 1 IN	1104/34-7A	
7011411-1L	1 FT-10 IN ± 1 IN	BA11-L, H777	PIN 3 1 END
7011411-1A	3 FT-3 IN ± 1 IN	H787	4 BOTH ENDS
7011411-3J	3 FT-8 IN ± 1 IN	BA11-K, H785	
7011411-2J	2 FT-8 IN ± 1 IN	BA11-K, H785	NO KEY
7011411-5F	5 FT-6 IN ± 1 IN	1160	8 ONE END
7011411-12	12 FT ± 3 IN	KAS70	
7011411-7	7 FT ± 2 IN	11780	
7011411-1C	1 FT-3 IN ± 1 IN	VT103	SEE NOTES BAND 1
7011411-2	2 FT ± 1 IN	VT103	SEE NOTES BAND 4
7011411-0E	5 IN ± .5 IN	NEBULA	18 BOTH ENDS
7011411-3D	3 FT-4 IN ± 1 IN	NEBULA	5 BOTH ENDS
7011411-0F	8 IN ± .5 IN	11/24	PIN 3 ONE END PIN 6 ONE END
7011411-1B	1 FT-2 IN ± 1 IN	H333-A/DPH50	4 BOTH ENDS
7011411-YA	2 FT ± 1 IN	NEBULA	PIN 5 BOTH ENDS
7011411-0I	12 IN ± 1 IN	NEBULA	PIN 10 BOTH ENDS

- NOTES:
1. INSERT KEY IN PROPER CONNECTOR PIN AND BREAK OFF TAB.
 2. FOR ITEM (2) DRAWING IS SHOWING 3M CONNECTOR.
 3. FOR -1C AND -2 VARIATIONS, KEY PIN 6.
 4. FOR -1C AND -2 VARIATIONS, KEY PIN 5.



REV.	CHG.	NO.	BY	DATE
1		1	7011411-00011	M
2		2	7011411-00012	N
3		3	7011411-00013	F
4		4	7011411-00014	R
5		5	7011411-00015	S
6		6	7011411-00016	T
7		7	7011411-00017	U
8		8	7011411-00018	V
9		9	7011411-00019	W
10		10	7011411-00020	X
11		11	7011411-00021	Y
12		12	7011411-00022	Z
13		13	7011411-00023	A
14		14	7011411-00024	B
15		15	7011411-00025	C
16		16	7011411-00026	D
17		17	7011411-00027	E
18		18	7011411-00028	F
19		19	7011411-00029	G
20		20	7011411-00030	H
21		21	7011411-00031	I
22		22	7011411-00032	J
23		23	7011411-00033	K
24		24	7011411-00034	L
25		25	7011411-00035	M
26		26	7011411-00036	N
27		27	7011411-00037	O
28		28	7011411-00038	P
29		29	7011411-00039	Q
30		30	7011411-00040	R
31		31	7011411-00041	S
32		32	7011411-00042	T
33		33	7011411-00043	U
34		34	7011411-00044	V
35		35	7011411-00045	W
36		36	7011411-00046	X
37		37	7011411-00047	Y
38		38	7011411-00048	Z
39		39	7011411-00049	A
40		40	7011411-00050	B
41		41	7011411-00051	C
42		42	7011411-00052	D
43		43	7011411-00053	E
44		44	7011411-00054	F
45		45	7011411-00055	G
46		46	7011411-00056	H
47		47	7011411-00057	I
48		48	7011411-00058	J
49		49	7011411-00059	K
50		50	7011411-00060	L
51		51	7011411-00061	M
52		52	7011411-00062	N
53		53	7011411-00063	O
54		54	7011411-00064	P
55		55	7011411-00065	Q
56		56	7011411-00066	R
57		57	7011411-00067	S
58		58	7011411-00068	T
59		59	7011411-00069	U
60		60	7011411-00070	V
61		61	7011411-00071	W
62		62	7011411-00072	X
63		63	7011411-00073	Y
64		64	7011411-00074	Z
65		65	7011411-00075	A
66		66	7011411-00076	B
67		67	7011411-00077	C
68		68	7011411-00078	D
69		69	7011411-00079	E
70		70	7011411-00080	F
71		71	7011411-00081	G
72		72	7011411-00082	H
73		73	7011411-00083	I
74		74	7011411-00084	J
75		75	7011411-00085	K
76		76	7011411-00086	L
77		77	7011411-00087	M
78		78	7011411-00088	N
79		79	7011411-00089	O
80		80	7011411-00090	P
81		81	7011411-00091	Q
82		82	7011411-00092	R
83		83	7011411-00093	S
84		84	7011411-00094	T
85		85	7011411-00095	U
86		86	7011411-00096	V
87		87	7011411-00097	W
88		88	7011411-00098	X
89		89	7011411-00099	Y
90		90	7011411-00100	Z

DESCRIPTION	QTY.	PART NO.	ITEM NO.
1 TIE, CABLE	9007031	5	
1 LABEL, CABLE IDENT	9009532	4	
AR KEY	9009707	3	
2 CONN. CRIMP	1211206-02	2	
AR CABLE, 10 CONDUCT	9107747-02	1	

THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
REMOVES BURRS AND BREAK SHARP CORNERS		CLASS OF ACCURACY (CHECK ONE)	
DO NOT SCALE DWG		MICROMETERS	
MATERIAL SEE PARTS LIST		PREFERRED	
FINISH		NEXT HIGHER ASSY.	
SCALE NONE		FIRST USED ON SEE LEGEND	
SHEET 1 OF 1		TITLE CABLE CONSOLE BACKPLANE	
DIST.		SIZE CODE D IA	
		NUMBER 7011411-0-0	
		REV. 1	

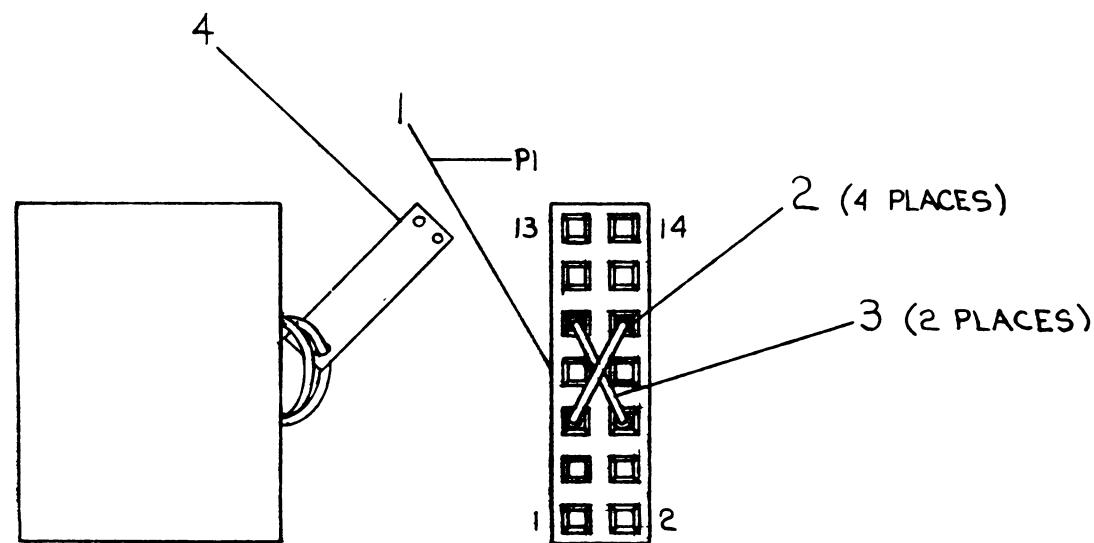
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WIRE TABLE

ITEM NO.	DISCRIPTION		FROM		TO		WIRE LENGTH
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
3	22	YEL	P1-5	2	P1-10	2	2"
3	22	YEL	P1-6	2	P1-9	2	2"

NOTES:

1 12-10089-06 MAY BE SUBSTITUTED FOR ITEM #2.



PIN INSERTION SIDE

1	LABEL, CABLE	9009532	4
A/R	WIRE 22AWG STRANDED YEL	9107350-44	3
4	CONN, SKT CRIMP	1210089-07	2
1	TERMINATOR, HSG 14 POS	1210918-30	1

DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
CLASS OF ACCURACY (CHECK ONE)		TYPICAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN		OVER 0 TO 12.0	OVER 12.0 TO 40.0
✓ MEDIUM		±.004	±.016
PREFERRED		±.012	±.025

THIRD ANGLE PROJECTION	DRN. <i>[Signature]</i> 12 MAR 78	FIRST USED ON	DLVII-J	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i> 12 MAR 78	TITLE	CONNECTOR, TEST	
DO NOT SCALE DWG	PROJ. ENG. <i>[Signature]</i> 12 MAY 78	SIZE	CODE	NUMBER
MATERIAL	PROD. <i>[Signature]</i> 12 MAY 78	A-PL-H3270-A-0	C	UA
SEE PARTS LIST	NEXT HIGHER ASSY.	SCALE	4/1	H3270-0-0
FINISH		SHEET	OF	DIST.
NONE				

REV.	
CHANGE NO.	
CHK	

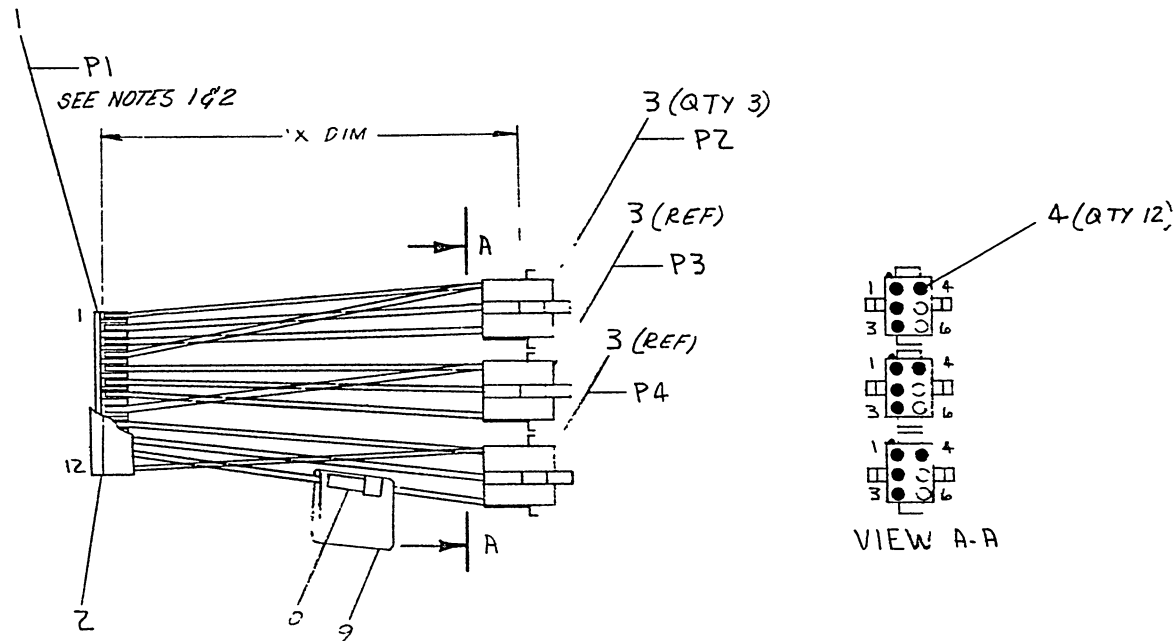
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WIRE TABLE						
ITEM NO	DESCRIPTION		FROM		TO	
	AWG	COLOR	CONN	TERM	CONN	TERM
5	18	BLK	P1-1		P2-1	4
6		YEL	P1-2		P2-4	
7		VIO	P1-3		P2-3	
8		BRN	P1-4		P2-2	
5		BLK	P1-5		P3-1	
6		YEL	P1-6		P3-4	
7		VIO	P1-7		P3-3	
8		BRN	P1-8		P3-2	
5		BLK	P1-9		P4-1	
6		YEL	P1-10		P4-4	
7		VIO	P1-11		P4-3	
8	18	BRN	P1-12		P4-2	4

LEGEND	
NUMBER	"X" DIM
16887-PE	5.0 ± .5 IN

NOTES

- WIRES TERMINATING TO P1 MUST NOT BE STRIPPED.
- PLACE COVER, ITEM #2, OVER CONN. HOUSING, ITEM #1, AFTER WIRES HAVE BEEN TERMINATED.
- STRIP WIRES ONLY ON P2, P3 & P4 ENDS .187 BEFORE CRIMPING CONTACTS.
- ITEM #4 CAN BE SUBSTITUTED BY P/N 12-09379-00 FOR MACHINE CRIMPING.



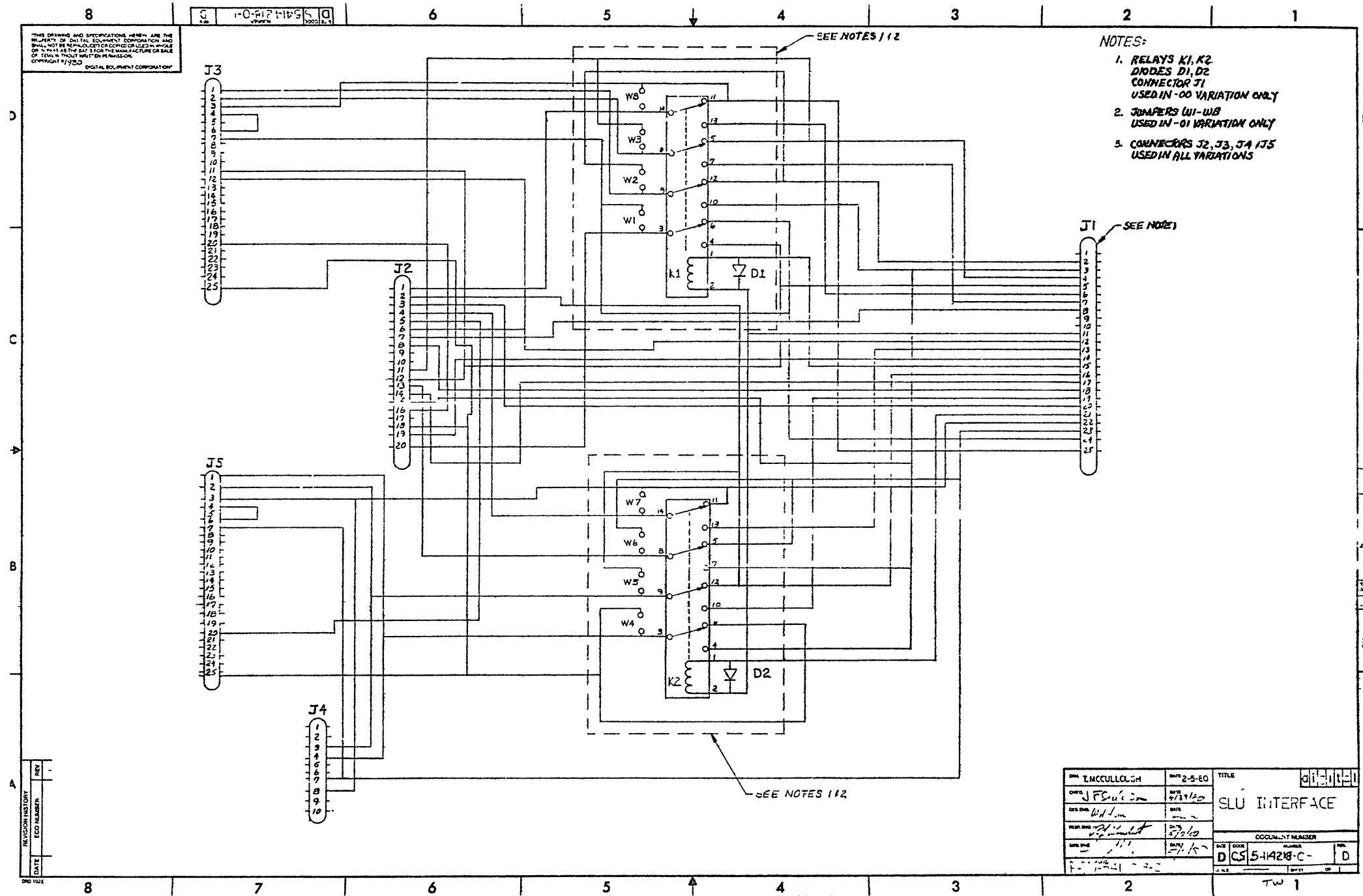
1	TIE, CABLE SSTI-M	7017031-00	10
1	LABEL, CABLE IDENTIFICATION	7009532-00	9
15	WIRE, 18 AWG, BRN, UL1430	9107786-11	8
15	WIRE, 18 AWG, VIO, UL1430	9107786-77	7
15	WIRE, 18 AWG, YEL, UL1430	9107786-44	6
15	WIRE, 18 AWG, BLK, UL1430	9107786-00	5
12	SKT, MATE-N-LOK, 20-14 AWG	1209379-01	4
3	CONN, 6 PIN MATE-N-LOK	1209350-06	3
1	COVER, 12 PIN MTA CONN	1216650-00	2
1	CONN, HOUSING, 12 POS MTA	1216651-00	1

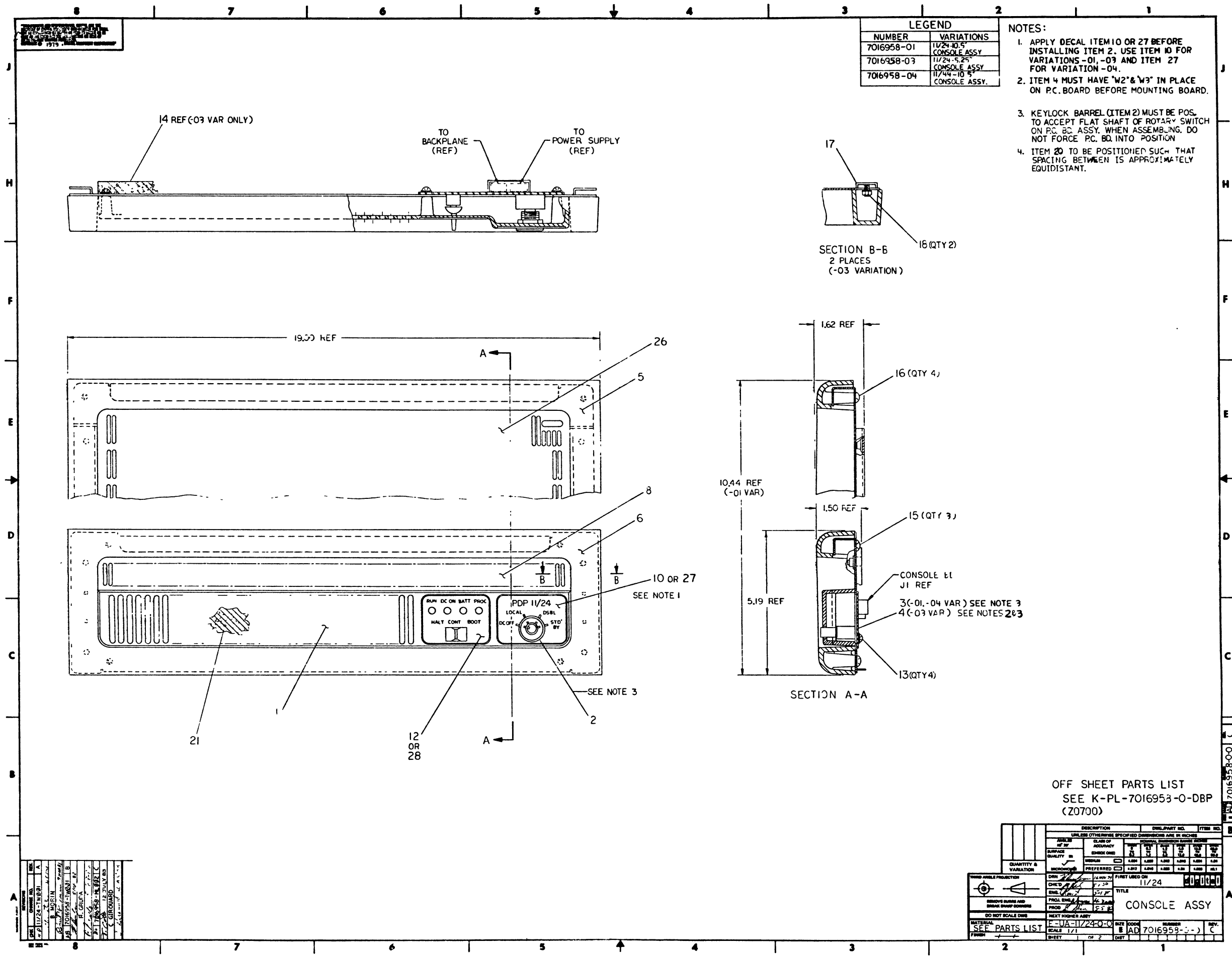
DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 10°-30°	CLASS OF ACCURACY (CHECK ONE)	DIMENSIONAL TOLERANCE IN INCHES	
SURFACE QUALITY IN	MEDIUM	OVER 0 TO 1.2	OVER 1.2 TO 4.0
		±.004	±.012
MICROMETERS	PREFERRED	±.012	±.025
		±.04	±.063

THIRD ANGLE PROJECTION	DRN. J. F. Sullivan	FIRST USED ON	BALL-A digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D J. F. Sullivan	DATE	MAY 1977
DO NOT SCALE DWG	ENG. R. G. Sullivan	DATE	MAY 1977
MATERIAL	PROL. ENG. R. G. Sullivan	DATE	MAY 1977
FINISH	PROD. G. Sullivan	DATE	MAY 1977
SCALE 1/1	NEXT HIGHER ASSY.	SIZE	D
SHEET OF 1	SCALE 1/1	CODE	AD
		NUMBER	7016887-0-0
		REV	A

REV.	CHANGE NO.	DATE
1	7016887-001	10-1-77
2	7016887-002	10-1-77
3	7016887-003	10-1-77
4	7016887-004	10-1-77
5	7016887-005	10-1-77
6	7016887-006	10-1-77
7	7016887-007	10-1-77
8	7016887-008	10-1-77
9	7016887-009	10-1-77
10	7016887-010	10-1-77

7016887-0-0



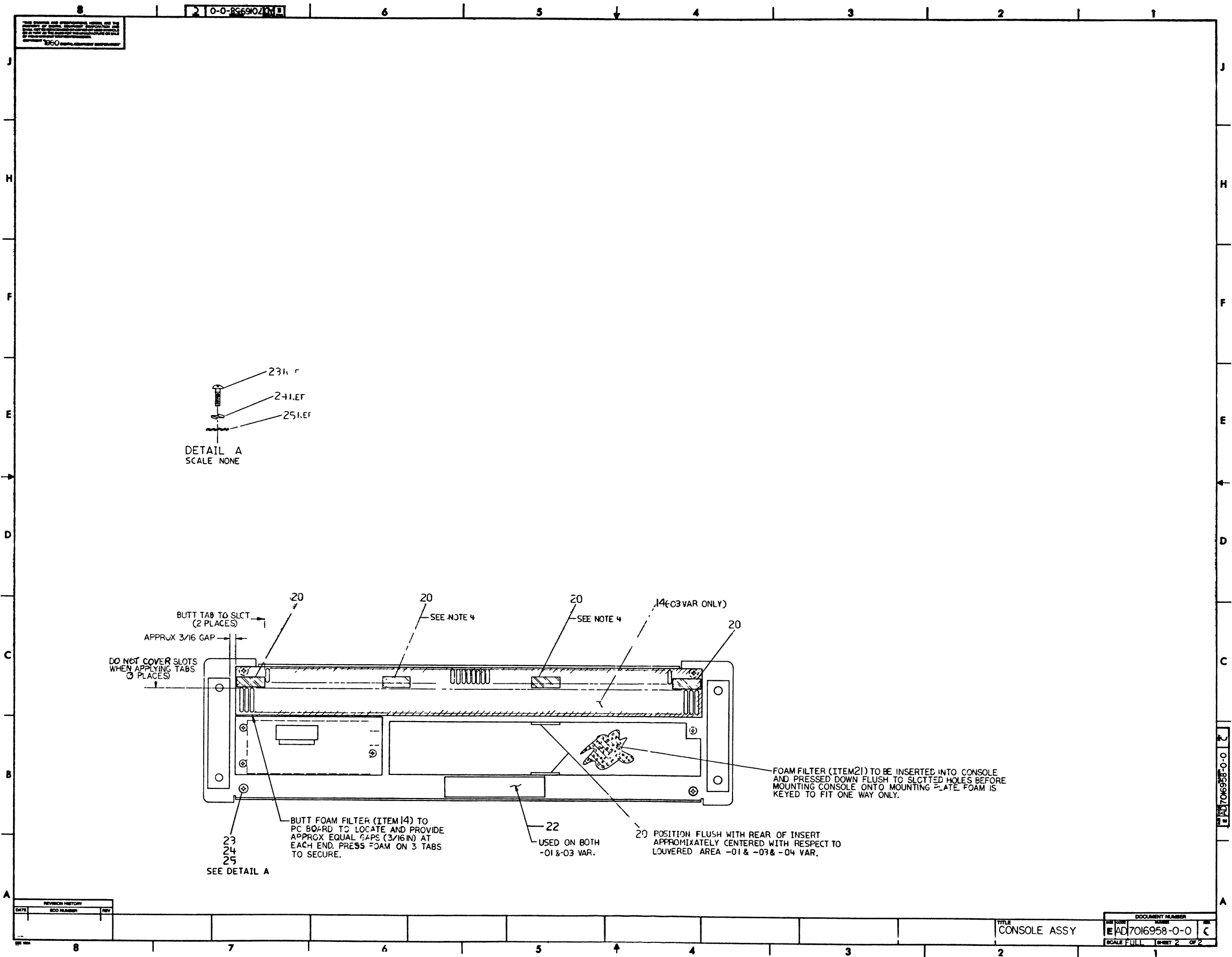


LEGEND	
NUMBER	VARIATIONS
7016958-01	11/24-10.5" CONSOLE ASSY
7016958-03	11/24-5.25" CONSOLE ASSY
7016958-04	11/44-10.5" CONSOLE ASSY

- NOTES:
1. APPLY DECAL ITEM 10 OR 27 BEFORE INSTALLING ITEM 2. USE ITEM 10 FOR VARIATIONS -01, -03 AND ITEM 27 FOR VARIATION -04.
 2. ITEM 4 MUST HAVE "W2" & "W3" IN PLACE ON P.C. BOARD BEFORE MOUNTING BOARD.
 3. KEYLOCK BARREL (ITEM 2) MUST BE POS. TO ACCEPT FLAT SHAFT OF ROTARY SWITCH ON P.C. BD. ASSY. WHEN ASSEMBLING, DO NOT FORCE P.C. BD. INTO POSITION.
 4. ITEM 20 TO BE POSITIONED SUCH THAT SPACING BETWEEN IS APPROXIMATELY EQUIDISTANT.

OFF SHEET PARTS LIST
SEE K-PL-7016953-0-DBP
(Z0700)

DESCRIPTION		DRAWING NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
APPROX. DIMENSIONS		CLASS OF ACCURACY		TOLERANCES	
SURFACE QUALITY		CHECK ONE		FINISH	
MICROFINISH		PREFERRED		HOLD	
QUANTITY & VARIATION		CHECK ONE		FINISH USED ON	
THIRD ANGLE PROJECTION		CHECK ONE		11/24	
REVISE DIMS AND BRASS SHARP CORNERS		CHECK ONE		TITLE	
DO NOT SCALE DIMS		CHECK ONE		CONSOLE ASSY	
MATERIAL		E-11/24-0-0		SIZE CODE	
SEE PARTS LIST		SCALE 1/1		NUMBER	
FINISH		SHEET		REV.	

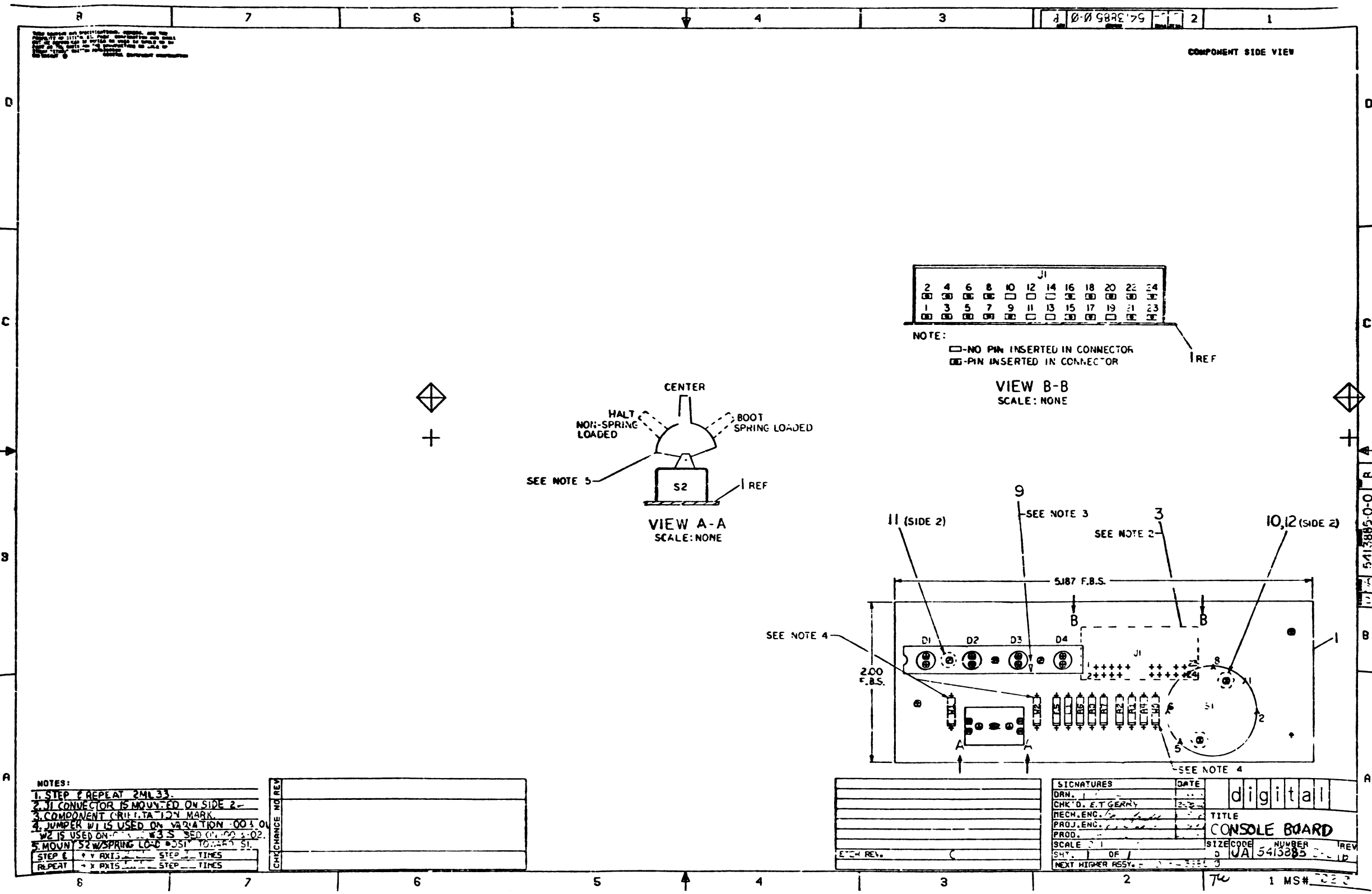


SHEET A1 OF A1

SHEET A1 OF A1

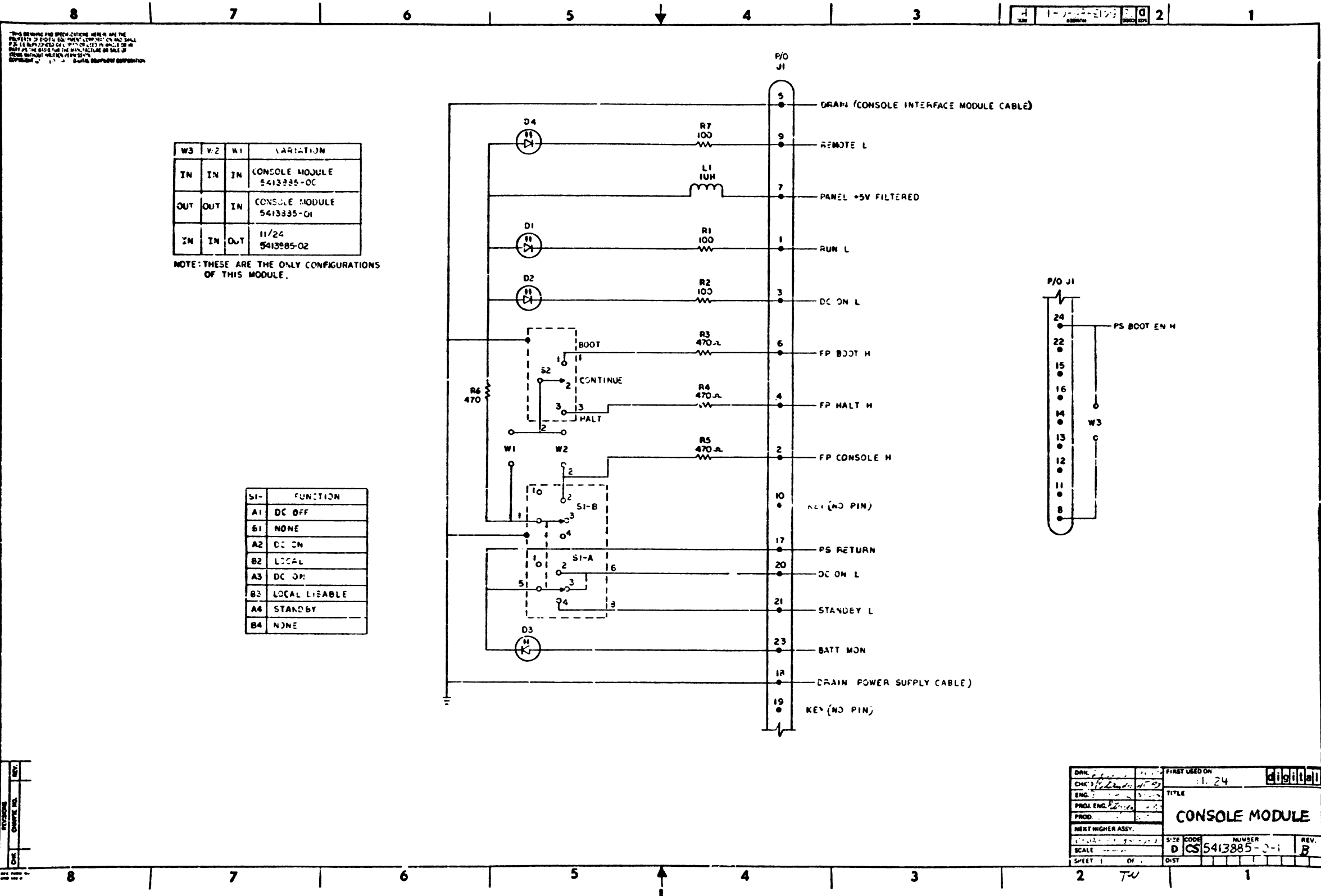
REVISION HISTORY			BASIC PART NO: 7016958			DIGITAL		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	M. BAPTISTE	DATE:	11-FEB-81	TITLE
---	INITIAL	A	SECTION. VARIATION INDEX	CHK'D:	R. J. RILEY	DATE:	11-FEB-81	PARTS LIST
---	INITIAL	A	[A] 01,03	CONSOLE ASSEMBLY				
RM	11/24-TW001	A	[B]	DES.ENG.:	R. MORIN	DATE:	11-FEB-81	DOCUMENT NUMBER
RM	11/24-TW001	A	[C]	RESP.ENG.:	R. MORIN	DATE:	11-FEB-81	SIZE CODE NUMBER REV
RA	7016958-TW001	B	[D]	MFG.ENG.:	R. GRUDA	DATE:	11-FEB-81	K PL 7016958-0-DBP B
			[E]	ASSEMBLY NUMBER:	E-AD-7016958-0-0	TOP DOCUMENT NUMBER:	E-UA-1124-0-0	FILE NAME: 207008.PLS EDIT # 49
			[F]					

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION			REFERENCE DESIGNATOR
					00	01	02	
1	1	D-MD-5013884-0-0	5013884-00	DRILL AND ETCH BRD	1	1	1	
2	2		1110864-00	LED 2MCD310MA	4	4	4	D1-D4
3	3		1213506-06	HEADER 6POS RT ANGLE	1	1	1	J1
4	4		1216180-00	SW,ROT 2P 4POS,45DEG. TH	1	1	1	S1
5	5		1216179-00	SW,LEVER 1P ON/OFF/ON	1	1	1	S2
6	6		1300229-00	100.0 .25 W 5.0 % CC	3	3	3	R1,R2,R7
7	7		1300316-00	470.0 .25 W 5.0 % CC	4	4	4	R6,R3-R5
8	8		1601562-00	1.0 UH 10% 475MA WDD1.00	1	1	1	L1
9	9		7413127-00	HOLDER REWORK LED (11/70)	1	1	1	
10	10		9006555-00	NUT,HEX 2-56X3/16AF X 1/	2	2	2	
11	11		9009236-01	SCREW,TAPPING,TYPE F,PAN,PHIL	3	3	3	
12	12		9009321-00	LOCK TITE, SCREW LOCK, 10CC PER	A/R	A/R	A/R	
13	13		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3	-	-	W1-W3
			CONT		-	1	-	W1
			CONT		-	-	2	W2,W3

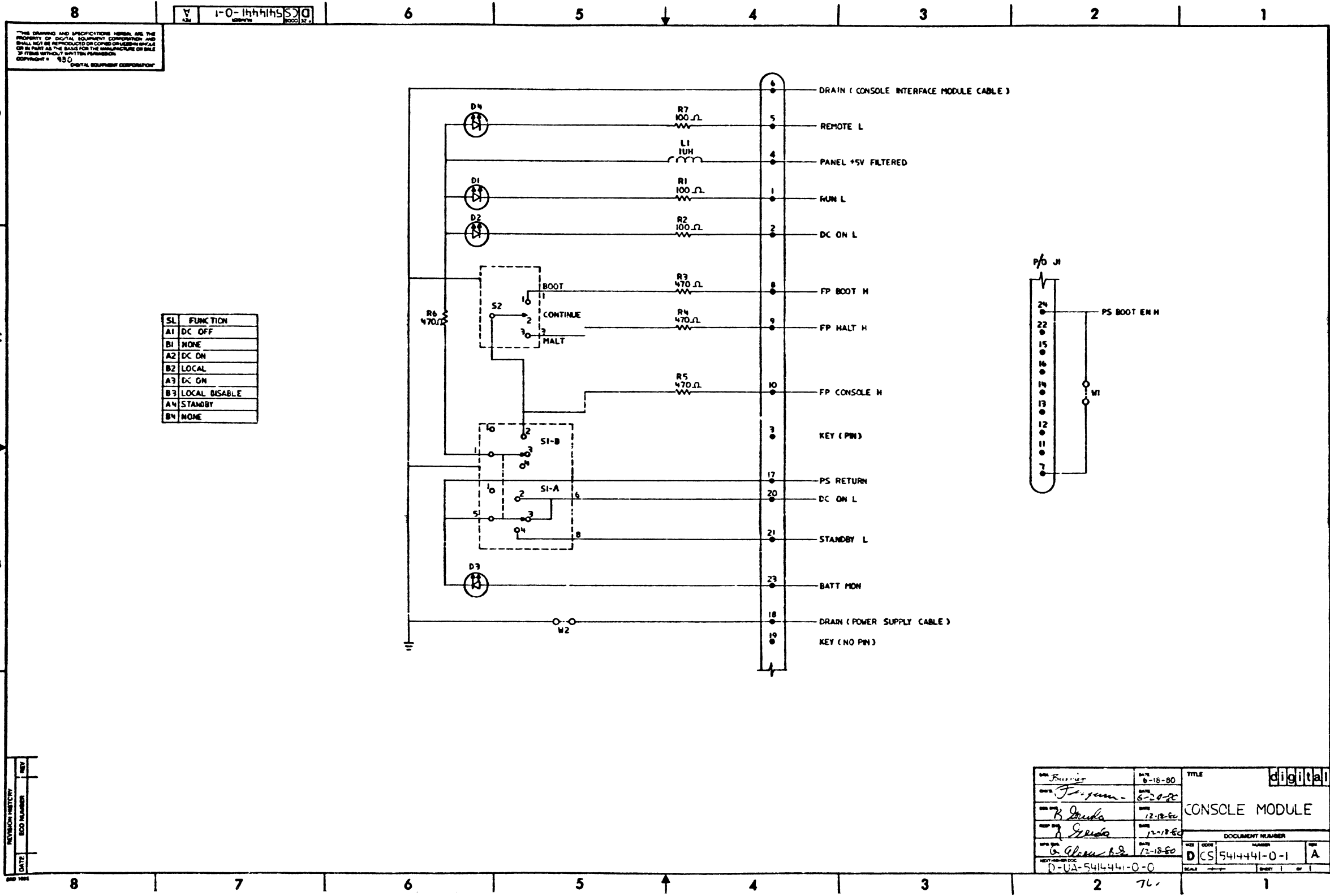
REVISION HISTORY			BASIC PART NO: 5413885		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: J.CASEY	DATE: 20-FEB-80
---	INITIAL	B	SECTION.VARIATION INDEX	CHK'D: E.T.GERRY	DATE: 20-FEB-80
			[A] 00,01,02	DES.ENG: D.LANDRY	DATE: 3-20-80
			[C]	RESP.ENG.: R.GRUDA	DATE: 5-JUNE-80
			[D]	MFG.ENG.: G.ABREU	DATE: 5-JUNE-80
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:
			[F]	D-UA-5413885-0-0	
			[H]		
			[J]		
			[K]		
			[L]		
			[M]		
			[N]		
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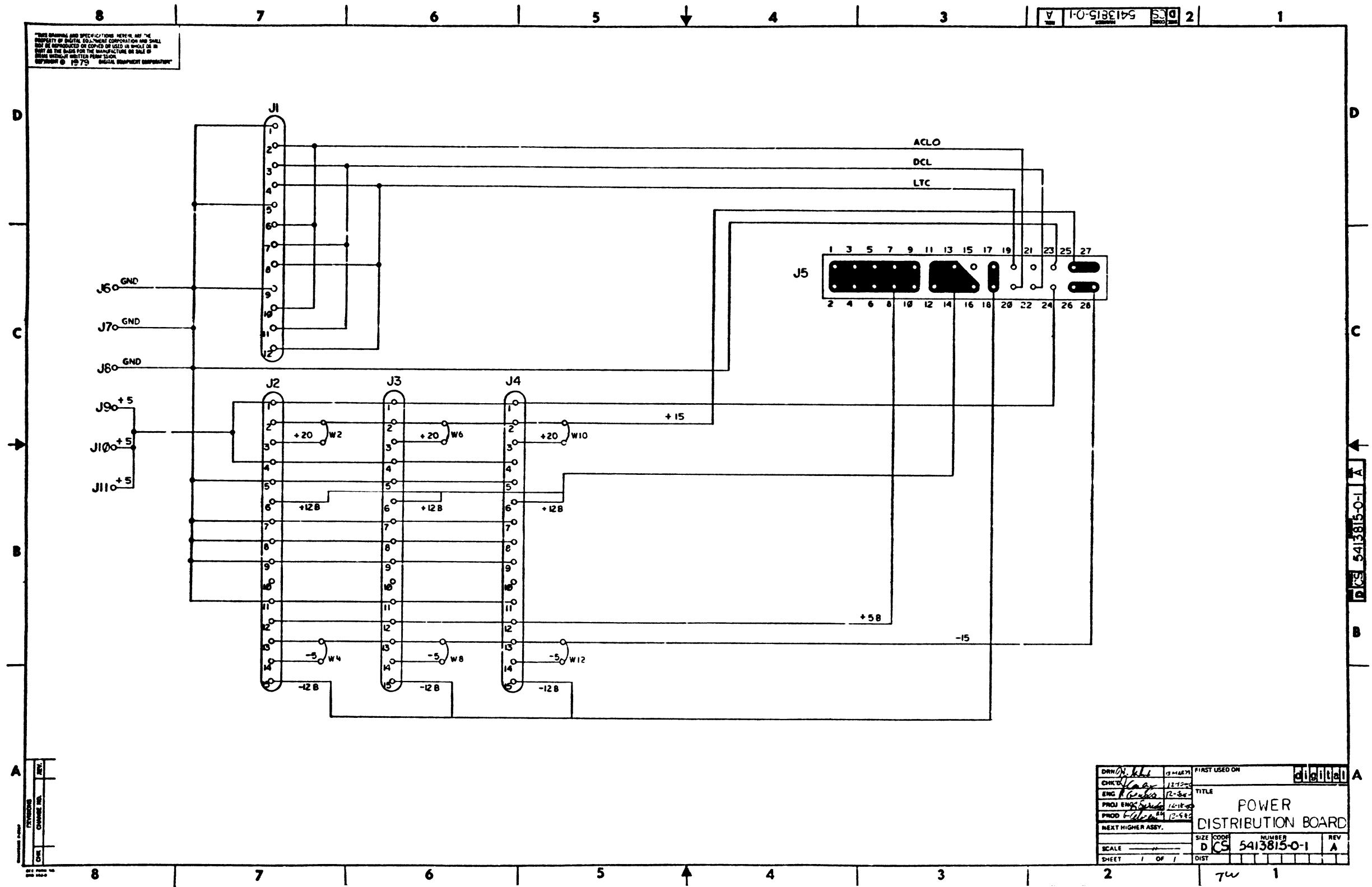


DRN.	11/24	FIRST USED ON	11/24	Digital
CHK'D	11/24	TITLE	CONSOLE MODULE	
ENG.	11/24	PROJ. ENG.		
PROD.	11/24	NEXT HIGHER ASSY.		
SCALE	1:1	SIZE CODE	NUMBER	REV.
SHEET 1 OF 1	DIST	D	CS 5413385-0-1	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5014440-0-0	5014440-00	DRILL AND ETCH BRD 11/24 CONSOLE	1		
2	2		1110864-00	LED 2MCD310MA	4		D1-D4
3	3		1213506-09	HEADER 24PCS RT ANGLE	1		J1
4	4		1216180-00	SW,ROT 2P 4POS,45DEG. TH	1		S1
5	5		1216179-00	SW,LEVER 1P ON/OFF/ON	1		S2
6	6		1300229-00	100.0 .25 W 5.0 % CC	3		R1,R2,R7
7	7		1300316-00	470.0 .25 W 5.0 % CC	4		R3-R5,R6
8	8		1601562-00	1.0 UH 10% 475MA #DD1.00	1		L1
9	9		7413127-00	HOLDER REWORK LED (11/70)	1		
10	10		9006555-00	NUT,HEX 2-56X3/16AF X 1/	2		
11	11		9009236-01	SCREW,TAPPING,TYPE F,PAN,PHIL	3		
12	12		9009321-00	LOCK TITE, SCREW LOCK, 10CC PER	A/R		
13	13		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2		W1,W2

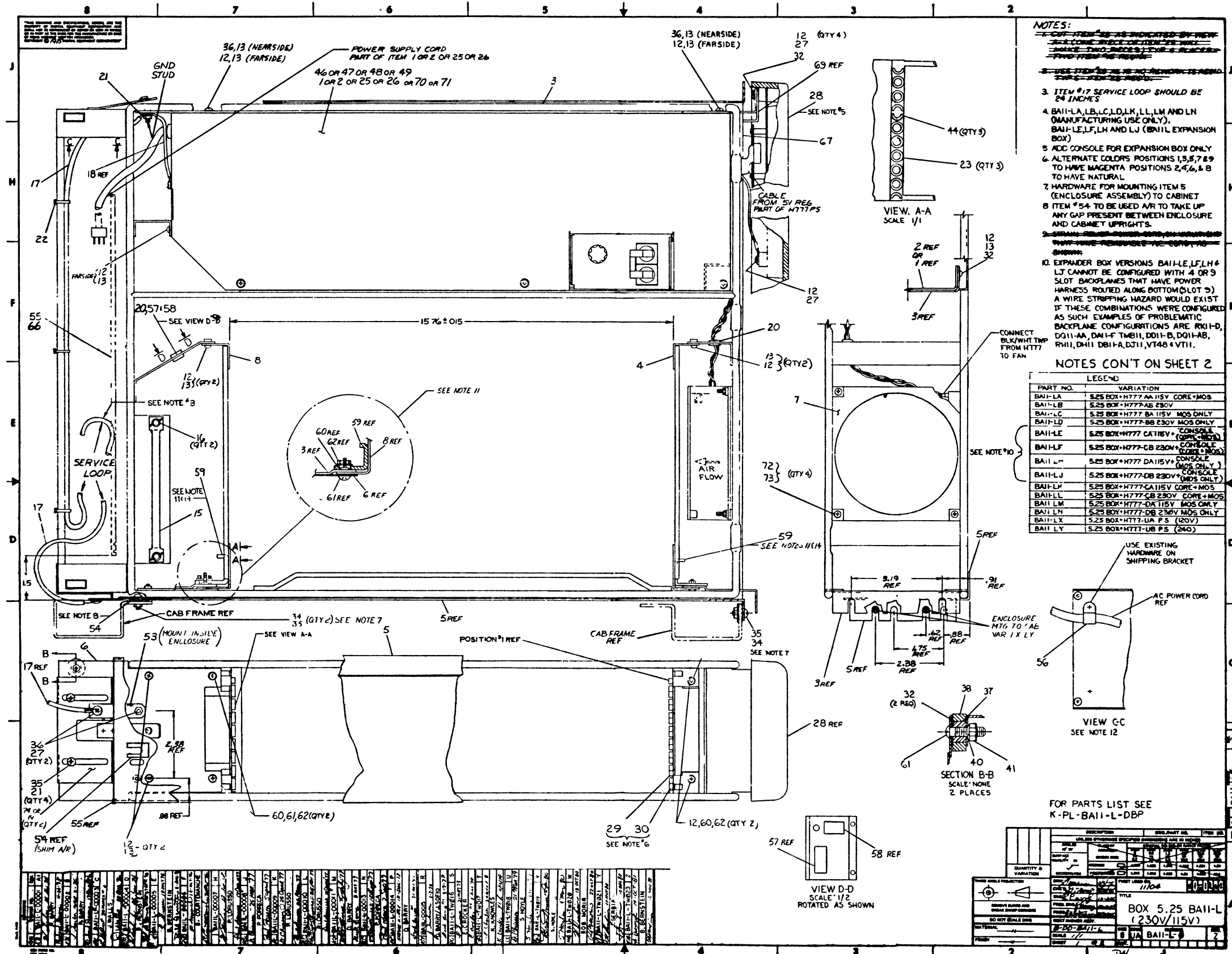
REVISION HISTORY		BASIC PART NO: 5414441		DRN: J.CASEY		DATE: 18-DEC-80		D I G I T A L	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D: E.T.GERRY		DATE: 18-DEC-80		TITLE PARTS LIST	
---	INITIAL	A	SECTION.VARIATION INDEX	DES.ENG: R.SILVER		DATE: 18-DEC-80		11/24 CONSOLE MODULE	
			[A] 00	RESP.ENG.: R.GRUDA		DATE: 18-DEC-80		DOCUMENT NUMBER	
			[B]	MFG.ENG.: G.ABRUE		DATE: 18-DEC-80		K PL 5414441-0-DBP A	
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[D]	D-UA-5414441-0-0				Z1275A.PLS 4	
			[E]						
			[F]						
			[G]						
			[H]						
			[I]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						
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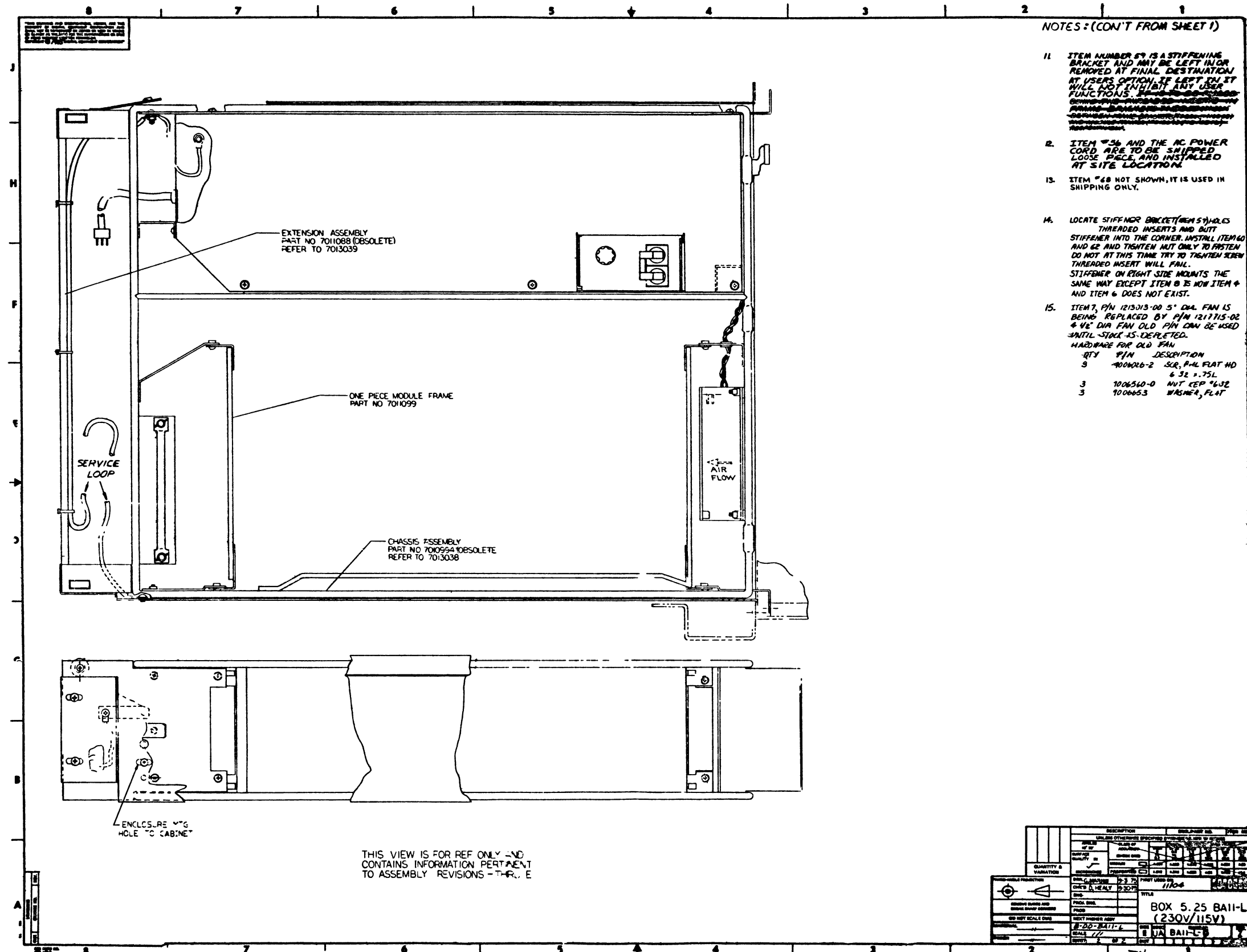




LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1		5013814-00	EXPANSION DIST BOARD	1	
2	2		1209350-15	MATE-N-LOK 15POS COMM HSG,SKT	3	J2,J3,J4
3	3		1209350-06	*** THIS ITEM IS NOT USED ***	-	
4	4		1216112-01	HEADER.100 28POS RT ANGLE	1	J5
5	5		1214809-01	INSERT,W/O INTERNAL THREADS,THRU	6	J6-J11
6	6		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	6	W2,W4,W6,W8,W10,W12
7	7		1209456-01	MATE-N-LOK SKT COMM PC MTG LOOSE	45	
8	8		9107786-00	*** THIS ITEM IS NOT USED ***	-	
9	9		1216652-00	CONN 12POS STRAIGHT	1	J1

REVISION HISTORY		BASIC PART NO: 5413815		DRN: J.CASEY		DATE: 18-DEC-80		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: J.FERGUSON		DATE: 18-DEC-80		TITLE PARTS LIST	
---	INITIAL	A	SECTION VARIATION INDEX	DES.ENG: R.SILVER		DATE: 18-DEC-80		POWER DISTRIBUTION BOARD	
			[A] 00	RESP.ENG.: R.GRUDA		DATE: 18-DEC-80		DOCUMENT NUMBER	
			[B]	MFG.ENG.: G.ABREU		DATE: 18-DEC-80		K PL 5413815-0-DBP	
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[D]	D-UA-5413815-0-0				Z1274A.PLS 11	
			[E]						
			[F]						
			[G]						
			[H]						
			[I]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						
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NOTES: (CON'T FROM SHEET 1)

11. ITEM NUMBER 59 IS A STIFFENING BRACKET AND MAY BE LEFT IN OR REMOVED AT FINAL DESTINATION AT USER'S OPTION. IF LEFT IN IT WILL NOT INHIBIT ANY USER FUNCTIONS.
12. ITEM 56 AND THE AC POWER CORD ARE TO BE SHIPPED LOOSE PIECE AND INSTALLED AT SITE LOCATION.
13. ITEM 48 NOT SHOWN, IT IS USED IN SHIPPING ONLY.
14. LOCATE STIFFENER BRACKET (ITEM 59) HOLES THREADED INSERTS AND BUTT STIFFENER INTO THE CORNER. INSTALL ITEM 60 AND 62 AND TIGHTEN NUT ONLY TO FASTEN DO NOT AT THIS TIME TRY TO TIGHTEN SCREW THREADED INSERT WILL FAIL. STIFFENER ON RIGHT SIDE MOUNTS THE SAME WAY EXCEPT ITEM 6 IS NOW ITEM 4 AND ITEM 6 DOES NOT EXIST.
15. ITEM 7, P/N 1213013-00 5" DIA. FAN IS BEING REPLACED BY P/N 1217715-02 4 1/2" DIA FAN OLD P/N CAN BE USED UNTIL STOCK IS DEPLETED.
HARDWARE FOR OLD FAN:
QTY P/N DESCRIPTION
9 1000026-2 SCR, P-HL FLAT HD 6.32 x .75L
3 1006540-0 NUT KEP #6-32
3 1006653 WASHER, FLAT

REVISIONS		DESCRIPTION		DRAWN BY		CHECKED BY	
1		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
2		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
3		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
4		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
5		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
6		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
7		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
8		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
9		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
10		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
11		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
12		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
13		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
14		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
15		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
16		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
17		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
18		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
19		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	
20		BOX 5.25 BAIL-L (230V/115V)		J. J. J.		J. J. J.	

AUTOMATED BY PRTLST.3P(44)

P A R T S L I S T

SHEET A1 OF A2

QUANTITY PER VARIATION					LA	LB	LC	LD	LE	LF	LH	LJ	LK	LL	LM	LN
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION												
1	1	E-UA-H777-DA-0	0H777-DA	H777-BA EXCEPT +5V 32A,120V	0	0	0	0	0	0	1	0	0	0	1	0
2	2	E-UA-H777-DB-0	0H777-DB	H777-BB EXCEPT +5V 32A,240V	0	0	0	0	0	0	0	1	0	0	1	0
3	3	E-IA-7013038-0-0	7013038-00	CHASSIS ASSY.	1	1	1	1	1	1	1	1	1	1	1	1
4	4	C-IA-7012653-0-0	7012653-00	RIGHT SIDE MODULE FRAME	1	1	1	1	1	1	1	1	1	1	1	1
5	5	D-AD-7011132-0-0	7011132-00	ENCLOSURE ASSY	1	1	1	1	1	1	1	1	1	1	1	1
6	6	D-IA-7013039-0-0	7013039-00	EXTENSION CHASSIS ASSY	1	1	1	1	1	1	1	1	1	1	1	1
7	7	SEE NOTE 15 (ON UA)	1217715-02	FAN, TUBE AXIAL 110V 120CFM 4.5"	1	1	1	1	1	1	1	1	1	1	1	1
8	8	C-IA-7012846-0-0	7012846-00	LEFT SIDE MODULE FRAME	1	1	1	1	1	1	1	1	1	1	1	1
9	9	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
10	10	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
11	11	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
12	12		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8	11	11	11	11	15	15	15	15	11	11	11	11
13	13		9006634-00	WASHER,LOCK,INT,.2300D X .172ID	14	14	14	14	14	14	14	14	14	14	14	14
14	14	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
15	15	B-MD-7413846-0-0	7413846-00	BAR CABLE STRAIN RELIEF	1	1	1	1	1	1	1	1	1	1	1	1
16	16		9009711-00	NUT,WING 6-32X 1/2 AF X 7	2	2	2	2	2	2	2	2	2	2	2	2
17	17	C-IA-7011412-0-0	7011412-03	CHASSIS GND CABLE [BA11-L]	1	1	1	1	1	1	1	1	1	1	1	1
18	18	C-IA-7011412-0-0	7011412-0F	CHASSIS GND CABLE [BA11-L]	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
19	19	C-MD-7414963-0-0	7414963-00	BRKT SHIPPING & CAB MTG	2	2	2	2	2	2	2	2	2	2	2	2
20	20		9007015-00	GROMMET, RUBBER	2	2	2	2	2	2	2	2	2	2	2	2
21	21		9006565-00	NUT,KEP 10-32X 3/8 AF	7	7	7	7	7	7	7	7	7	7	7	7
22	22		9007031-00	TIE,CABLE BUNDL.DIA 3- 3/4"=101	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
23	23		1211630-00	CARD GUIDE	3	3	3	3	3	3	3	3	3	3	3	3
24	24	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
25	25	E-UA-H777-CA-0	0H777-CA	H777-AA EXCEPT +5V 32A,120V	0	0	0	0	1	0	0	0	1	0	0	0
26	26	E-UA-H777-CB-0	0H777-CB	H777-AB EXCEPT +5V 32A,240V	0	0	0	0	0	1	0	0	0	1	0	0
27	27		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	3	3	3	3	7	7	7	7	3	3	3	3
28	28	D-AD-7012540-0-0	7012540-00	CONSOLE ASSY EXPANDER BOX	0	0	0	0	1	1	1	1	0	0	0	0
29	29		1212405-04	CARD GUIDE,NYLON	4	4	4	4	4	4	4	4	4	4	4	4
30	30		1212405-05	CARD GUIDE,NYLON	5	5	5	5	5	5	5	5	5	5	5	5

REVISION HISTORY		BASIC PART NO: 0BA11		DRN: G. MARINI		DATE: 3-SEP-75		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF B	CHK'D: D. HEALY		DATE: 30-SEP-75		TITLE PARTS LIST	
---	INITIAL	2	SECTION. VARIATION INDEX	DES.ENG.: R. BARRY		DATE: 2-OCT-75		BOX 5.25 BA11-L (230V/115V)	
			(A) LA, LB, LC, LD, LE, LF, LH, LJ, LK, LL, LM, LN	RESP.ENG.: R.K. PETERSON		DATE: 2-OCT-75		DOCUMENT NUMBER	
			(B) LX, LY	MFG.ENG.: R.K. PETERSON		DATE: 2-OCT-75		SIZE CODE NUMBER REV	
			(C)	ASSEMBLY NUMBER: E-UA-BA11-L-0		TOP DOCUMENT NUMBER:		K PL BA11-L-DBP Z	
			(D)					FILE NAME: 23025Z.PLS	
			(E)					EDIT # 7	
			(F)						

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PARTS LIST

SHEET A2 OF A2

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	LA	LB	LC	LD	LE	LF	LH	LJ	LK	LL	LM	LN
31	31	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
32	32		9006666-00	WASHER, FLAT, .500 OD X .187 ID	0	0	0	0	0	0	0	0	0	0	0	0
33	33	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
34	34		9007786-00	RETAINER, U-NUT, 10-32	0	0	0	0	0	0	0	0	0	0	0	0
35	35		9006071-03	SCREW, TRUS, PHIL, 10-32X 3/8	0	0	0	0	0	0	0	0	0	0	0	0
36	36		9006036-03	SCREW, TRUS, PHIL, 8-32X 1/4	0	0	0	0	0	0	0	0	0	0	0	0
37	37	B-MD-7417606-0-0	7417606-00	SLEEVE ROLLER	0	0	0	0	0	0	0	0	0	0	0	0
38	38	B-MD-7417607-0-0	7417607-00	ROLLER	0	0	0	0	0	0	0	0	0	0	0	0
39	39	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
40	40		9006690-00	WASHER, LOCK, S.S. #8	0	0	0	0	0	0	0	0	0	0	0	0
41	41		9006561-00	NUT, HEX 8-32 X5/16AF X 7	0	0	0	0	0	0	0	0	0	0	0	0
42	42		3700061-00	INSTR PKG COMPUTER 11/05 OLD STY	0	0	0	0	0	0	0	0	0	0	0	0
43	43		3700133-00	INSTR PKG COMPUTER INPLANT 1105	0	0	0	0	0	0	0	0	0	0	0	0
44	44	C-MD-7418077-0-0	7418077-00	3 POSITION CARD GUIDE	0	0	0	0	0	0	0	0	0	0	0	0
45	45	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
46	46	E-UA-H777-BA-0	0H777-BA	11/04 POWER SUPPLY, MOS ONLY, NO +	0	0	0	0	0	0	0	0	0	0	0	0
47	47	E-UA-H777-EB-0	0H777-EB	11/04 POWER SUPPLY, MOS ONLY, NO +	0	0	0	0	0	0	0	0	0	0	0	0
48	48	E-UA-H777-AA-0	0H777-AA	BA11-L POWER SUPPLY, +5V 25A, +20V	0	0	0	0	0	0	0	0	0	0	0	0
49	49	E-UA-H777-AB-0	0H777-AB	240V H777-AA	0	0	0	0	0	0	0	0	0	0	0	0
50	50	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
51	51	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
52	52	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
53	53	B-IA-7418258-0-0	7418258-00	GROUND STRAP	0	0	0	0	0	0	0	0	0	0	0	0
54	54	B-MD-7418259-0-0	7418259-00	SPACER INCLOSURE	0	0	0	0	0	0	0	0	0	0	0	0
55	55		9007035-00	GROMMET #122-37-1500	0	0	0	0	0	0	0	0	0	0	0	0
56	56		9007083-00	CLAMP, CABLE, SCREW MTD. 3/8 "	0	0	0	0	0	0	0	0	0	0	0	0
57	57	A-PS-3613211-0-0	3613211-01	DECAL, CLEAR PREPRINTED CSA 1-1/4	0	0	0	0	0	0	0	0	0	0	0	0
58	58	A-DC-7416197-0-0	7416197-01	DECAL	0	0	0	0	0	0	0	0	0	0	0	0
59	59	C-MD-7419019-0-0	7419019-00	BRACKET, MODULE FRAME STIFFENING	0	0	0	0	0	0	0	0	0	0	0	0
60	60		9006668-00	WASHER, FLAT 5/8 ODX 13/64IDX.032	0	0	0	0	0	0	0	0	0	0	0	0
61	61		9006040-03	SCREW, TRUS, PHIL, 8-32X 5/8	0	0	0	0	0	0	0	0	0	0	0	0
62	62		9006563-00	NUT, KEP 8-32X 11/13AF	0	0	0	0	0	0	0	0	0	0	0	0
63	63	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
64	64	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
65	65	BLANK			0	0	0	0	0	0	0	0	0	0	0	0
66	66		9009157-00	ADH, LIQ. RM. TEMP CURING COLORLESS	0	0	0	0	0	0	0	0	0	0	0	0
67	67		1212707-00	FILTER, AIR, FOAM, 30PPI, 16.75X4.5X	0	0	0	0	0	0	0	0	0	0	0	0
68	68		9007032-00	TIE, CABLE BUNDL. DIA 0-1-3/4"=101	0	0	0	0	0	0	0	0	0	0	0	0
69	69	C-MD-7414962-0-0	7414962-00	BRKT FILTER SUPPORT	0	0	0	0	0	0	0	0	0	0	0	0
70	70	E-UA-H777-UA-0	0H777-UA	11/24 PS: +5V 32A, +15V 3A, -15V 3	0	0	0	0	0	0	0	0	0	0	0	0
71	71	E-UA-H777-UB-0	0H777-UB	11/24 PS: +5V 32A, +15V 3A, -15V 3	0	0	0	0	0	0	0	0	0	0	0	0
72	72		9006025-02	SCREW, FLAT, PHIL, 6-32X 5/8	0	0	0	0	0	0	0	0	0	0	0	0
73	73		9009165-00	CLIP, FAN MOUNTING (12-05033 FAN	0	0	0	0	0	0	0	0	0	0	0	0
74	74	C-MD-7425811-0-0	7425811-00	BRACKET, SHIPPING, 11/24	0	0	0	0	0	0	0	0	0	0	0	0

D	I	G	I	T	A	L	TITLE	BOX 5.25 BA11-L (230V/115V)	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	BA11-L-DBP	Z

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					LX	LY
1	1	E-UA-H777-DA-0	0H777-DA	H777-BA EXCEPT +5V 32A,120V	0	0
2	2	E-UA-H777-DB-0	0H777-DB	H777-BB EXCEPT +5V 32A,240V	0	0
3	3	E-IA-7013038-0-0	7013038-00	CHASSIS ASSY	1	1
4	4	C-IA-7012653-0-0	7012653-00	RIGHT SIDE MODULE FRAME	1	1
5	5	D-AD-7011132-0-0	7011132-00	ENCLOSURE ASSY	1	1
6	6	D-IA-7013039-0-0	7013039-00	EXTENSION CHASSIS ASSY	1	1
7	7	SEE NOTE 15 (ON UA)	1217715-02	FAN, TUBE AXIAL 110V 120CFM 4.5"	1	1
8	8	C-IA-7012846-0-0	7012846-00	LEFT SIDE MODULE FRAME	1	1
9	9	BLANK			0	0
10	10	BLANK			0	0
11	11	BLANK			0	0
12	12		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8	12	12
13	13		9006634-00	WASHER,LOCK,INT,.2300D X .172ID	12	12
14	14	BLANK			0	0
15	15	B-MD-7413846-0-0	7413846-00	BAR CABLE STRAIN RELIEF	1	1
16	16		9009711-00	NUT,WING 6-32X 1/2 AF X 7	2	2
17	17	C-IA-7011412-0-0	7011412-03	CHASSIS GND CABLE [BA11-L]	1	1
18	18	C-IA-7011412-0-0	7011412-0F	CHASSIS GND CABLE [BA11-L]	REF	REF
19	19	C-MD-7414963-0-0	7414963-00	BRKT SHIPPING & CAB MTG	0	0
20	20		9007015-00	GROMMET, RUBBER	25	25
21	21		9006565-00	NUT,KEP 10-32X 3/8 AF	5	5
22	22		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	A/R	A/R
23	23		1211630-00	CARD GUIDE	3	3
24	24	BLANK			0	0
25	25	E-UA-H777-CA-0	0H777-CA	H777-AA EXCEPT +5V 32A,120V	0	0
26	26	E-UA-H777-CB-0	0H777-CB	H777-AB EXCEPT +5V 32A,240V	0	0
27	27		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	3	3
28	28	D-AD-7012540-0-0	7012540-00	CONSOLE ASSY EXPANDER BOX	0	0
29	29		1212405-04	CARD GUIDE,NYLON	4	4
30	30		1212405-05	CARD GUIDE,NYLON	5	5

REVISION HISTORY		BASIC PART NO: 0BA11		DRN: G. MARINI		DATE: 3-SEP-75		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION B OF B	CHK'D: D. HEALY		DATE: 30-SEP-75		TITLE PARTS LIST	
INITIAL		Z	SECTION. VARIATION INDEX	DES.ENG.: R. BARRY		DATE: 2-OCT-75		BOX 5.25 BA11-L (230V/115V)	
			[A] LA,LB,LC,LD,LE,LF, LH,LJ,LK,LL,LM,LN	RESP.ENG.: R.K. PETERSON		DATE: 2-OCT-75		DOCUMENT NUMBER	
			[B] LX,LY	MFG.ENG.: R.K. PETERSON		DATE: 2-OCT-75		SIZE CODE NUMBER REV	
			[C]	ASSEMBLY NUMBER: E-UA-BA11-L-0		TOP DOCUMENT NUMBER:		K PL BA11-L-DBP Z	
			[D]					FILE NAME: 23025Z.PLS	
			[E]					EDIT # 7	
			[F]						
"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION"									

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					LX	LY
31	31	BLANK			0	0
32	32		9006666-00	WASHER, FLAT, .500 OD X .187 ID	55	55
33	33	BLANK			0	0
34	34		9007786-00	RETAINER, U-NUT, 10-32	6	6
35	35		9006071-03	SCREW, TRUS, PHIL, 10-32X 3/8	10	10
36	36		9006035-03	SCREW, TRUS, PHIL, 8-32X 1/4	10	10
37	37	B-MD-7417606-0-0	7417606-00	SLEEVE ROLLER	2	2
38	38	B-MD-7417607-0-0	7417607-00	ROLLER	2	2
39	39	BLANK			0	0
40	40		9006690-00	WASHER, LOCK, S.S. #8	2	2
41	41		9006561-00	NUT, HEX 8-32 X5/16AF X 7	2	2
42	42		3700061-00	INSTR PKG COMPUTER 11/06 OLD STY	0	0
43	43		3700133-00	INSTR PKG COMPUTER INPLANT 1105	0	0
44	44	C-MD-7418077-0-0	7418077-00	3 POSITION CARD GUIDE	3	3
45	45	BLANK			0	0
46	46	E-UA-H777-BA-0	0H777-BA	11/04 POWER SUPPLY, MOS ONLY, NO +	0	0
47	47	E-UA-H777-BB-0	0H777-BB	11/04 POWER SUPPLY, MOS ONLY, NO +	0	0
48	48	E-UA-H777-AA-0	0H777-AA	BA11-L POWER SUPPLY, +5V 25A, +20V	0	0
49	49	E-UA-H777-AB-0	0H777-AB	240V H777-AA	0	0
50	50	BLANK			0	0
51	51	BLANK			0	0
52	52	BLANK			0	0
53	53	B-IA-7418258-0-0	7418258-00	GROUND STRAP	1	1
54	54	B-MD-7418259-0-0	7418259-00	SPACER INCLOSURE	A/R	A/R
55	55		9007035-00	GROMMET #122-37-1500	A/R	A/R
56	56		9007083-00	CLAMP, CABLE, SCREW MTD. 3/8 "	1	1
57	57	A-PS-3613211-0-0	3613211-01	DECAL, CLEAR PREPRINTED CSA 1-1/4	1	1
58	58	A-DC-7416197-0-0	7416197-01	DECAL	1	1
59	59	C-MD-7419019-0-0	7419019-00	BRACKET, MODULE FRAME STIFFENING	2	2
60	60		9006668-00	WASHR, FLAT 5/8 ODX 13/64IDX.032	4	4
61	61		9006040-03	SCREW, TRUS, PHIL, 8-32X 5/8	4	4
62	62		9006563-00	NUT, KEP 8-32X 11/13AF	4	4
63	63	BLANK			0	0
64	64	BLANK			0	0
65	65	BLANK			0	0
66	66		9009157-00	ADH, LIQ. RM. TEMP CURING COLORLESS	A/R	A/R
67	67		1212707-00	FILTER, AIR, FOAM, 30PPI, 16.75X4.5X	0	0
68	68		9007032-00	TIE, CABLE BUNDL. DIA 0-1-3/4"=101	2	2
69	69	C-MD-7414962-0-0	7414962-00	BRKT FILTER SUPPORT	0	0
70	70	E-UA-H777-UA-0	0H777-UA	11/24 PS: +5V 32A, +15V 3A, -15V 3	1	0
71	71	E-UA-H777-UB-0	0H777-UB	11/24 PS: +5V 32A, +15V 3A, -15V 3	0	1
72	72		9006025-02	SCREW, FLAT, PHIL, 6-32X 5/8	4	4
73	73		9009165-00	CLIP, FAN MOUNTING (12-05033 FAN	4	4
74	74	C-MD-7425811-0-0	7425811-00	BRACKET, SHIPPING, 11/24	2	2

D	I	G	I	T	A	L	TITLE	BOX 5.25 BA11-L (230V/115V)	SECTION B OF B	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	BA11-L-DBP	Z

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

FIELD MAINT. PRINT SET H777-0
POWER SUPPLY H777-0 SH2
POWER SUPPLY H777-0 (PL)
+5V REGULATOR ASSY.
+5V REG. ASSY. (PL)
BOARD, POWER DISTRIBUTION H777
H777 +5V REGULATOR
AC INPUT ASSY
AC INPUT ASSY (PL)
MOS REGULATOR H777
CORE REGULATOR H777
⊕ 15V REGULATOR
⊕ 15V REGULATOR
⊕ 15V REGULATOR

B-TC-H777-0-2
E-UA-H777-0-0
A-PL-H777-0-0
D-AD-7012909-0-0
A-PL-7012909
D-CS-5411586-0-1
D-CS-5412667-0-1
D-AD-7012910-0-0
A-PL-7012910-0-0
D-CS-5411601-0-1
D-CS-5411599-0-1
D-CS-5413764-0-1
K-PL-5413764-0-DBP
D-UA-5413764-0-0

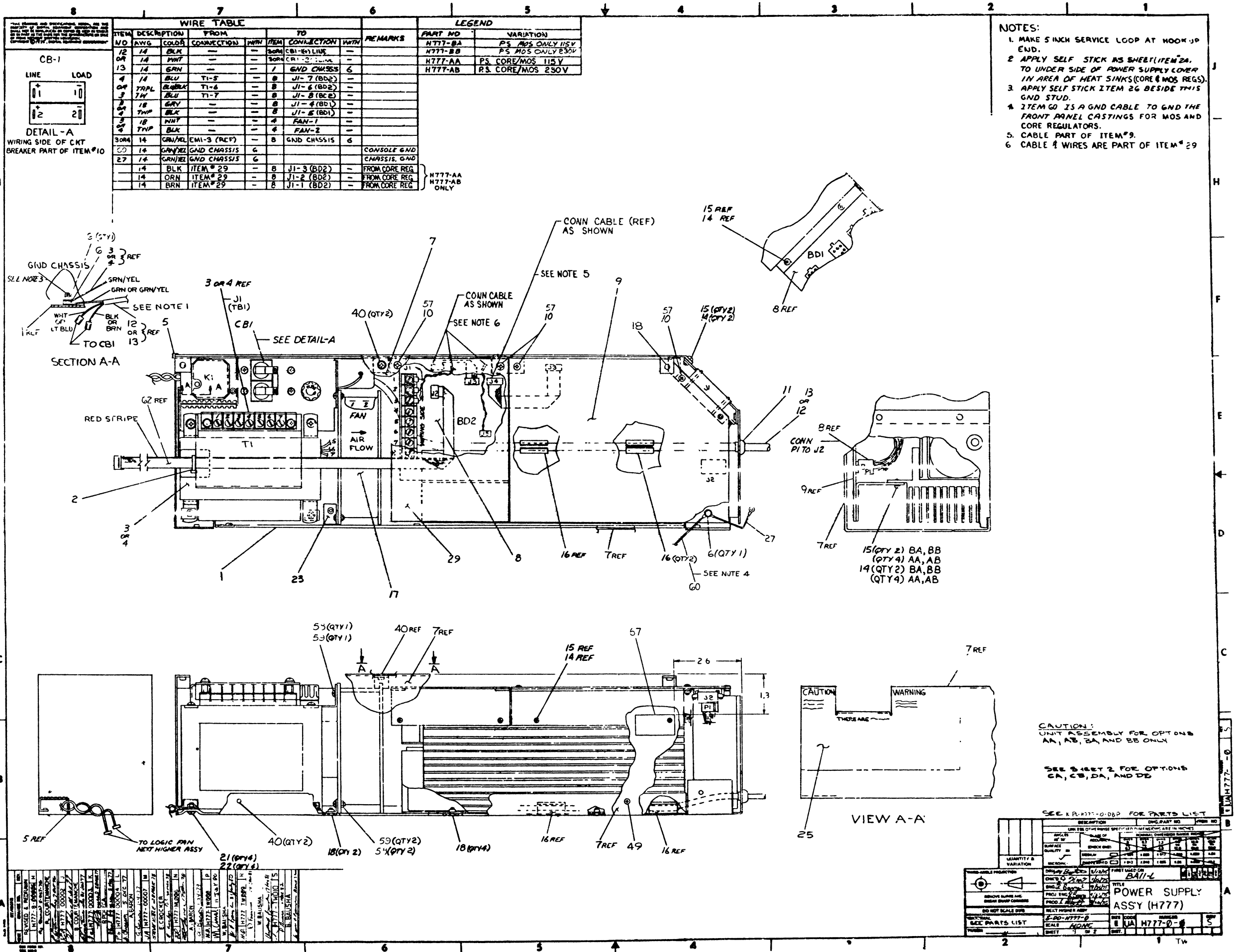
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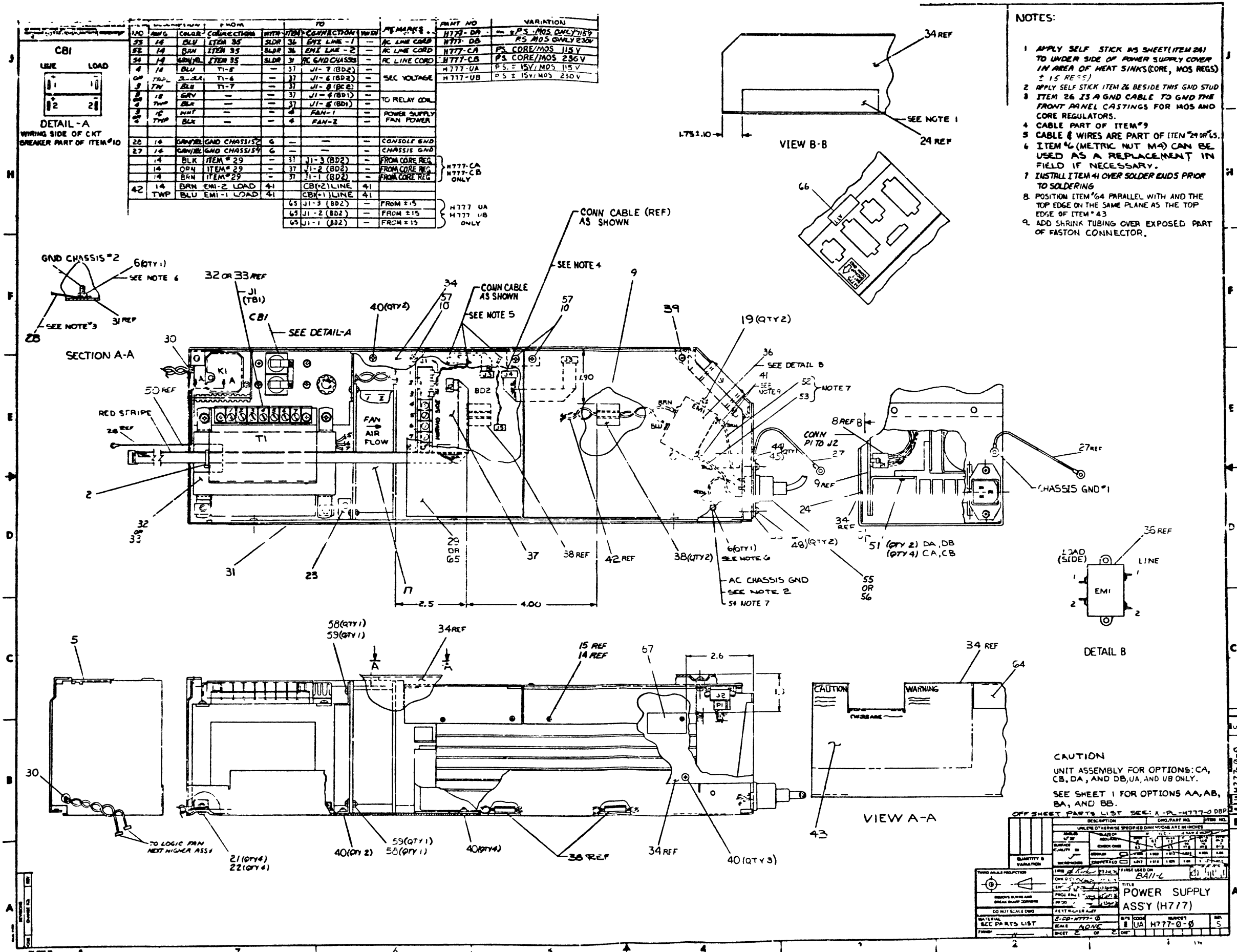
H777-0 VOL.2
Field Maintenance
Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MP00309

REVISIONS				USED ON OPTION/MODEL		DRN.	DATE	digital TITLE: FIELD MAINTENANCE PRINT SET H777-0									
DATE	CHG. NO.	REV.				CHK'D	DATE										
JAN-77	H777-2	-	ORIGINATED	BAll-LA	BAll-LK	<i>[Signature]</i>	<i>18 Jan 77</i>										
3-78	H777-5	E		BAll-LB	BAll-LL	<i>KIT</i>	<i>19 JAN 77</i>										
7-80	H777-TW008	F		BAll-LC	BAll-LM			PROJ. ENG.	DATE	SIZE	CODE	NUMBER				REV	
				BAll-LD	BAll-LN			<i>[Signature]</i>	<i>25 JAN 77</i>	B	TC	H777-0-2				F	
				BAll-LE	BAll-LX			FIELD SERV.	DATE	DIST.							
				BAll-LF	BAll-LY			<i>[Signature]</i>	<i>27 Jan 79</i>								
				BAll-LH													
				BAll-LJ													
				SHEET I OF 1													





ITEM	QTY	DESCRIPTION	UNIT	REMARKS	PART NO.	VARIATION
1	1	PS MOS ONLY 230V			H777-DB	
2	1	PS MOS ONLY 230V			H777-DB	
3	1	PS MOS ONLY 230V			H777-DB	
4	1	PS MOS ONLY 230V			H777-DB	
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99	1	PS MOS ONLY 230V			H777-DB	
100	1	PS MOS ONLY 230V			H777-DB	

- NOTES:
1. APPLY SELF STICK WS SHEET (ITEM 24) TO UNDER SIDE OF POWER SUPPLY COVER IN AREA OF HEAT SINKS (CORE, MOS REGS) 15 REFS
 2. APPLY SELF STICK ITEM 26 BESIDE THIS GND STUD
 3. ITEM 26 IS A GND CABLE TO GND THE FRONT PANEL CASTINGS FOR MOS AND CORE REGULATORS.
 4. CABLE PART OF ITEM 9
 5. CABLE & WIRES ARE PART OF ITEM 24 OF 15.
 6. ITEM 46 (METRIC NUT M4) CAN BE USED AS A REPLACEMENT IN FIELD IF NECESSARY.
 7. INSTALL ITEM 41 OVER SOLDER ENDS PRIOR TO SOLDERING
 8. POSITION ITEM 64 PARALLEL WITH AND THE TOP EDGE ON THE SAME PLANE AS THE TOP EDGE OF ITEM 43
 9. ADD SHRINK TUBING OVER EXPOSED PART OF FASTON CONNECTOR.

CAUTION
UNIT ASSEMBLY FOR OPTIONS: CA, CB, DA, AND DB, UA, AND UB ONLY.
SEE SHEET 1 FOR OPTIONS AA, AB, BA, AND BB.

ITEM	QTY	DESCRIPTION	UNIT	REMARKS
1	1	PS MOS ONLY 230V		
2	1	PS MOS ONLY 230V		
3	1	PS MOS ONLY 230V		
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100	1	PS MOS ONLY 230V		

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION								DA	DB	UA	UB
					AA	AB	BA	BB	CA	CB						
1	1	D-IA-7011248-0-0	7011248-00	POWER SUPPLY CHASSIS	1	1	1	1	0	0			0	0	0	0
2	2		9007031-00	TIE, CABLE BUNDL.DIA 0- 3/4"=101	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
3	3	D-AD-7011075-0-0	7011075-00	CONTROL ASSY	1	0	1	0	0	0			0	0	0	0
4	4	D-AD-7011075-0-0	7011075-01	A/C INPUT ASSY (120V/230V)	0	1	0	1	0	0			0	0	0	0
5	5		9007035-00	GROMMET, CATERPILLAR POLYAMIDE	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
6	6		9006563-00	NUT, KEP 8-32X 11/13AF	2	2	2	2	2	2			2	2	2	2
7	7	E-MD-7413825-0-0	7413825-00	POWER SUPPLY COVER	1	1	1	1	0	0			0	0	0	0
8	8	D-AD-7011073-0-0	7011073-00	+5V REG ASSY	1	1	1	1	0	0			0	0	0	0
9	9	D-CS-5411601-0-1	5411601-01	MOS REGULATOR 15V	1	1	1	1	1	1			1	1	1	1
10	10		9006021-01	SCREW, MACH PAN PHIL 6-	4	4	2	2	3	3			1	1	3	3
11	11		9008509-00	STRAIN, RELIEF, BUSHING, NYLON	1	1	1	1	0	0			0	0	0	0
12	12	D-IA-7012320-0-0	7012320-00	POWER CORD 115V (H777-B)	1	0	1	0	0	0			0	0	0	0
13	13	D-IA-7012320-0-0	7012320-01	POWER CORD 230V (H777-B)	0	1	0	1	0	0			0	0	0	0
14	14		9006022-01	SCREW, MACH PAN PHIL 6-	6	6	4	4	0	0			0	0	0	0
15	15		9006633-00	WASHER, LOCK INTERNAL STEEL	10	10	6	6	3	3			1	1	3	3
16	16		9009771-02	CLAMP, CABLE, PVC, 3/8" ID, SELF ST	2	2	2	2	0	0			0	0	0	0
17	17		1217715-02	FAN, TUBE AXIAL 4.5" 120CFM 120V	1	1	1	1	1	1			1	1	1	1
18	18		9006020-02	SCREW, MACH FLAT PHIL 6-	7	7	7	7	0	0			0	0	0	0
19	19		9008185-00	NUT, KEP 6-32X 1/4 AF	0	0	0	0	2	2			2	2	2	2
20	20	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-			-	-	-	-
21	21		9006074-03	SCREW, MACH TRUSS PHIL 10-	4	4	4	4	4	4			4	4	4	4
22	22		9007651-00	WASHER, LOCK EXTERNAL STEEL	4	4	4	4	4	4			4	4	4	4
23	23	C-IA-7413773-0-0	7413773-00	FAN SUPPORT	2	2	2	2	2	2			2	2	2	2
24	24		1210984-05	PLASTIC SHEET, ABS, .030X9.00X1.5	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
25	25	B-DC-7414744-0 C	7414744-00	DECAL H777 PS	1	1	1	1	0	0			0	0	0	0
26	26	A-PS-3612680-0-0	3612680-00	DECAL, GROUND SIGN PER 3E6 *	2	2	2	2	2	2			2	2	2	2
27	27	C-IA-7011412-0-0	7011412-0F	CHASSIS GND CABLE (BA11-L)	1	1	1	1	1	1			1	1	1	1
28	28	C-IA-7011412-0-0	7011412-1H	CHASSIS GND CABLE (BA11-L)	0	0	0	0	1	1			1	1	1	1
29	29	D-CS-5411599-0-1	5411599-01	120V REG H777 NO FAT TEST	1	1	0	0	1	1			0	0	0	0
30	30		9007015-00	GROMMET, ROUND RUBBER	0	0	0	0	1	1			1	1	1	1

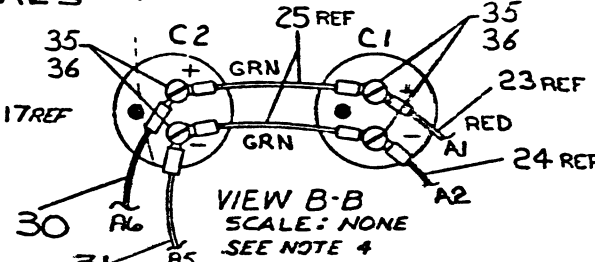
REVISION HISTORY		BASIC PART NO: OH777		DRN: T.ROCHA		DATE: 15-MAR-82		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: D.HEALY		DATE: 15-MAR-82		TITLE PARTS LIST	
INITIAL		S	SECTION. VARIATION INDEX	DES.ENG.: R.BARRY		DATE: 15-MAR-82		POWER SUPPLY ASSY	
			[A] AA,AB,BA,BB,CA,CB, DA,DB,UA,UB	RESP.ENG.: R.BARRY		DATE: 15-MAR-82		DOCUMENT NUMBER	
			[B]	MFG.ENG.: R.KING		DATE: 15-MAR-82		SIZE CODE NUMBER REV	
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[D]	E-UA-H777-0-0		B-DD-H777-0-0		Z41755.PLS 8	
			[E]	"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1982. DIGITAL EQUIPMENT CORPORATION"					
			[F]						

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY		PER	VARIATION		DA	DB	UA	UB
					AA	AB	BA	BB	CA	CB			
31	31	D-IA-7417407-0-0	7417407-00	CHASSIS P.S.	0	0	0	0	1	1	1	1	1
32	32	D-AD-7012910-0-0	7012910-00	A/C INPUT ASSY 230V	0	0	0	0	1	0	1	1	0
33	33	D-AD-7012910-0-0	7012910-01	A/C INPUT ASSY	0	0	0	0	0	1	0	0	1
34	34	E-IA-7417018-0-0	7417018-00	COVER POWER SUPPLY	0	0	0	0	1	1	1	1	1
35	35	A-PS-1213773-0-0	1213773-00	CONN.POWER 03POSW RCPT NEMA 06-1	0	0	0	0	1	1	1	1	1
36	36	A-PS-1212877-0-0	1212877-00	FILTER,LINE,115/250V,47-400HZ,FA	0	0	0	0	1	1	1	1	1
37	37	D-AD-7012909-0-0	7012909-00	+5V REGULATOR ASSY	0	0	0	0	1	1	1	1	1
38	38		9009771-01	CLAMP, CABLE, PVC, 1/4"ID,SELF S	0	0	0	0	2	2	2	2	2
39	39		9006024-01	SCREW,MACH PAN PHIL 6-	0	0	0	0	1	1	1	1	1
40	40		9008404-02	SCREW,MACH FLAT PHIL 6-	4	4	4	4	11	11	11	11	11
41	41		9107253-02	TUBING,SHRINK .250ID EXP	0	0	0	0	A/R	A/R	A/R	A/R	A/R
42	42	C-IA-7417288-0-0	7417288-00	WIRE A.C. CONN. HARNESS	0	0	0	0	REF	REF	REF	REF	REF
43	43	A-PS-3617382-0-0	3617382-00	LABEL,POWER SUPPLY H777	0	0	0	0	1	1	1	1	1
44	44		9006037-01	SCREW,MACH PAN PHIL 8-	0	0	0	0	1	1	1	1	1
45	45		9006634-00	WASHER,LOCK INTERNAL STEEL	0	0	0	0	1	1	1	1	1
46	46	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-
47	47		9006011-01	SCREW,MACH PAN PHIL 4-	0	0	0	0	2	2	2	2	2
48	48		9006632-00	WASHER,LOCK INTERNAL STEEL	0	0	0	0	2	2	2	2	2
49	49		9008020-02	SCREW,MACH FLAT PHIL 6-	1	1	1	1	0	0	0	0	0
50	50	D-IA-7011411-0-0	7011411-1L	CONSOLE CABLE (5412572)	0	0	0	0	REF	REF	REF	REF	REF
51	51		9006022-03	SCREW,MACH TRUSS PHIL 6-	0	0	0	0	4	4	2	4	4
52	52	C-IA-7013938-1-0	7013938-01	CABLE JUMPER	0	0	0	0	1	1	1	1	1
53	53	C-IA-7013938-0-0	7013938-00	CABLE JUMPER ASSY	0	0	0	0	1	1	1	1	1
54	54	C-IA-7013939-0-0	7013939-00	UNIT ASSY	0	0	0	0	1	1	1	1	1
55	55		1700083-05	PWR CORD,TERM.108IN,14-3,125V 15	0	0	0	0	1	0	1	1	0
56	56		1700083-04	PWR CORD,TERM.108IN,14-3,250V 6	0	0	0	0	1	1	1	1	1
57	57		9006656-00	WASHER,FLAT STEEL	4	4	2	2	2	3	1	3	3
58	58		9006025-01	SCREW,MACH PAN PHIL 6-	3	3	3	3	3	3	3	3	3
59	59		9006560-00	NUT,KEP 6-32X 5/16AF	3	3	3	3	3	3	3	3	3
60	60	C-IA-7011412-0-0	7011412-3C	CABLE ASSEMBLY	1	1	1	1	0	0	0	0	0
61	61		9006561-00	NUT,HEX 8-32 X5/16AF X 7	1	1	1	1	0	0	0	0	0
62	62	C-IA-7011414-0-0	7011414-1F	H777 POWER CONTROL CABLE (CONSOL	REF	REF	REF	REF	0	0	0	0	0
63	63		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1	1	1	1	1	1	1	1	1
64	64	A-PS-3614833-0-0	3614833-00	DECAL,ADH BACK-CAUTION-CAPACTOR	0	0	0	0	1	1	1	1	1
65	65	D-UA-5413764-0-0	5413764-00	PLUS OR MINUS 15V POWER SUP.	0	0	0	0	0	0	0	1	1
66	66	A-PS-3617413-0-0	3617413-00	LABEL,ATTENTION FOR 11/24	0	0	0	0	0	0	0	1	1
67	67	A-PS-3618858-0-0	3618858-01	LABEL,SCREW LENGTH	1	1	1	1	1	1	1	1	1
68	68	A-PS-3700603-0-0	3700603-00	PKG POWER SUPPLY H777	REF	REF	REF	REF	REF	REF	REF	REF	REF

D	I	G	I	T	A	L	TITLE	POWER SUPPLY ASSY	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	H777-0-DBP	S

NOTES:

1. USE ITEM #16 (SPRIMMET) TO COVER RAW METAL EDGES UNDER CAPACITORS.
2. LEADS FROM ITEMS #22, 23 & 24 ARE TO BE CUT FLUSH WITH TOP OF CLAMPS ON ITEM #1. A1, A2, A3 & A4
3. * ASTRISK INDICATES THAT THESE COUN. ALREADY HAVE BEEN MADE ON PLUG P1 ON HARNESS D-1A-70H560-0-0 THEY ARE SHOWN FOR REF ONLY.
4. ITEMS #17 & #13 ARE TO HAVE THEIR ELECTRICAL CONNECTIONS TORQUED TO 12 IN-LBS (-0.4 IN-LBS).
5. BRING SCREW TO A NO SLACK POSITION, THEN TIGHTEN WITH $\frac{1}{2}$ TO $\frac{3}{4}$ TURN ONLY.
6. ITEMS #33 & #34 ARE NOT SHOWN.



OFF SHEET PARTS LIST
SEE A-PL-7012909-3-0

1	BUMPER	9009624	32
1	JUMPER, BLK	B-1A-201802-0-0	31
1	JUMPER, RED	B-1A-201801-0-0	30
1	DEAL, BATT! BACKUP	A-DC-741691-00	29
5	SCR FLAT MD *6-32 X.25	900620-2	28
2	WASHER NYLON *8	9006108	27
2	NUT KEPS *8-32	9006568	26
2	JUMPER (GRN)	B-4A-201800-0-0	25
1	JUMPER (BLK)	B-4A-201802-0-0	24
1	JUMPER (PCL)	B-4A-201801-0-0	23
1	CHOK	147584	22
2	SPACER HEX *8-32 X1.25	9009603	21
2	WASHER INT TOTH LOCK *8	9006634	20
2	SCR PHIL HD TRUSS *8-32 X.384	9009636-1	19
1	CLAMP CAPACITOR	C-MD-7417408-00	18
2	CAPACITOR 20 KUF 50V	130702	17
4/1	GROMMET CATERPILLAR	9007035	16
1	BRACKET CAPACITOR	B-2A-740743-1-0	15
2	GROMMET RUBBER	9007017	14
1	CAPACITOR 3700UF/160V(65)	7012780-00	13
1	CLAMP CAPACITOR	9009652	12
2	SCR PHIL PAN MD *6-32 X.25L	9006020-1	11
2	NUT KEPS *6-32	9008185	10
1	PLATE, CAPACITOR CONN SIDE	D-1A-7417517-0-0	9
1	BOARD, PWR DISTR. H777	D-5S-325584-0-1	8
1	HARNES BD NOS RES PWR DST	D-1A-21560-0-0	7
2	WASH 1375.0DXJ37IDX036	9006660	6
1	HARNES HT777SV REG	D-1A-701415-0-0	5
2	SCR PHIL MD PAN *6-32 X.31L	9006221-1	4
2	SCR PHIL MD PAN *6-32 X.50L	9006024-1	3
2	WASHER INT TOTH LOCK *8	9006633	2
1	H777+SV REG (REV & UP)	D-5S-325584-0-1	1

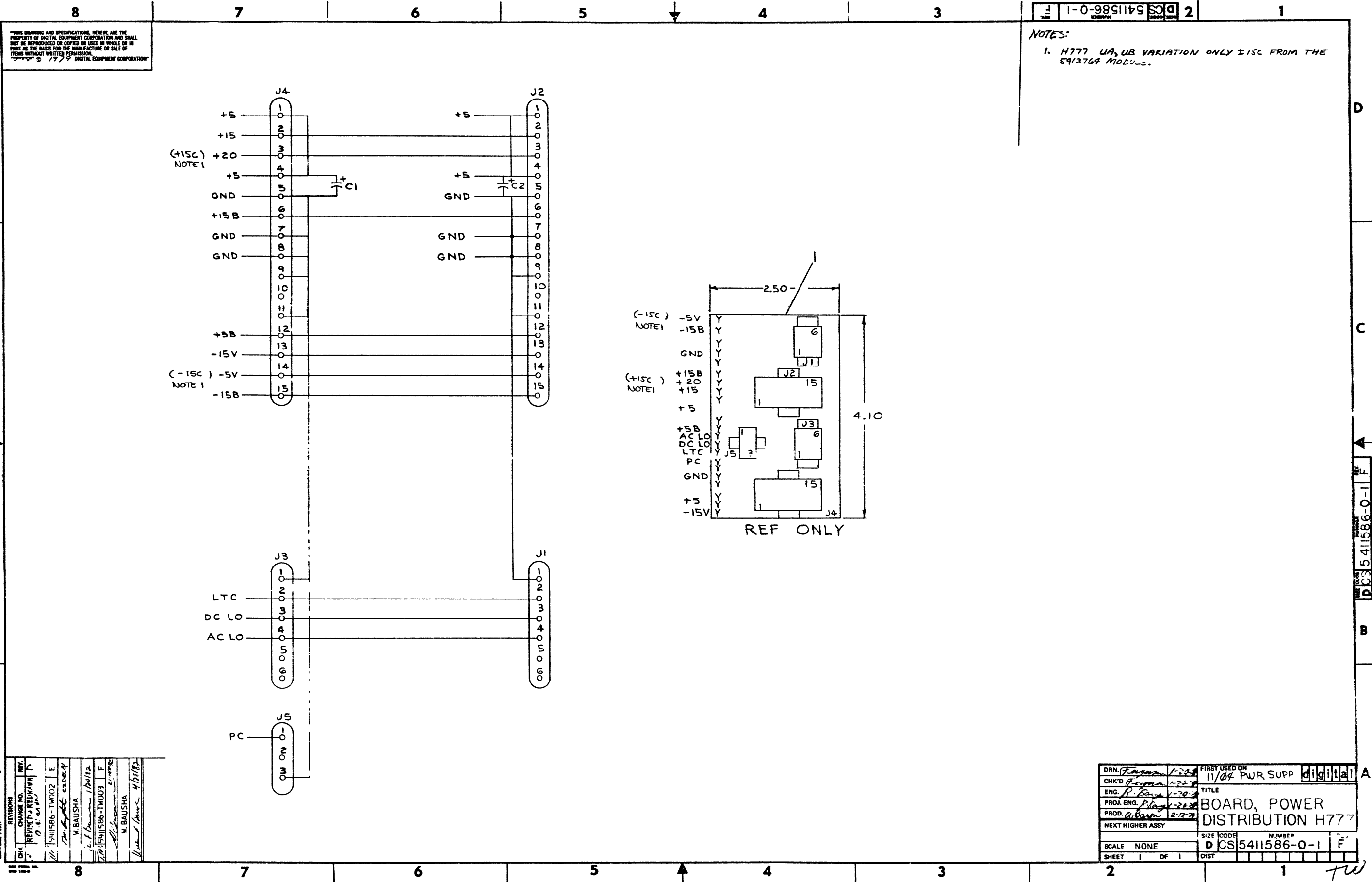
DESCRIPTION		DRAWING PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLES NOT 90°		NOMINAL DIMENSION RANGE INCHES			
SURFACE QUALITY	CLASS OF ACCURACY	OVER 8	OVER 8	OVER 12	OVER 12
	(CHECK ONE)	0.2	0.2	0.2	0.2
	MEDIUM	0.2	0.2	0.2	0.2
FINISHES	PERFECTED	0.2	0.2	0.2	0.2
		0.2	0.2	0.2	0.2
DRAWN		FIRST USED ON		TITLE	
CHECKED		H777-000		digit 8	
ENGINEERED		+5V REG ASSY			
PROL ENG					
PROD. FINISH					
NEXT HIGHER ASSY.		SIZE		CODE	
D-66-H777-0-0		D ADI		NUMBER	
SCALE		7012909-0-0		REV	
SHEET		DIST.		E	

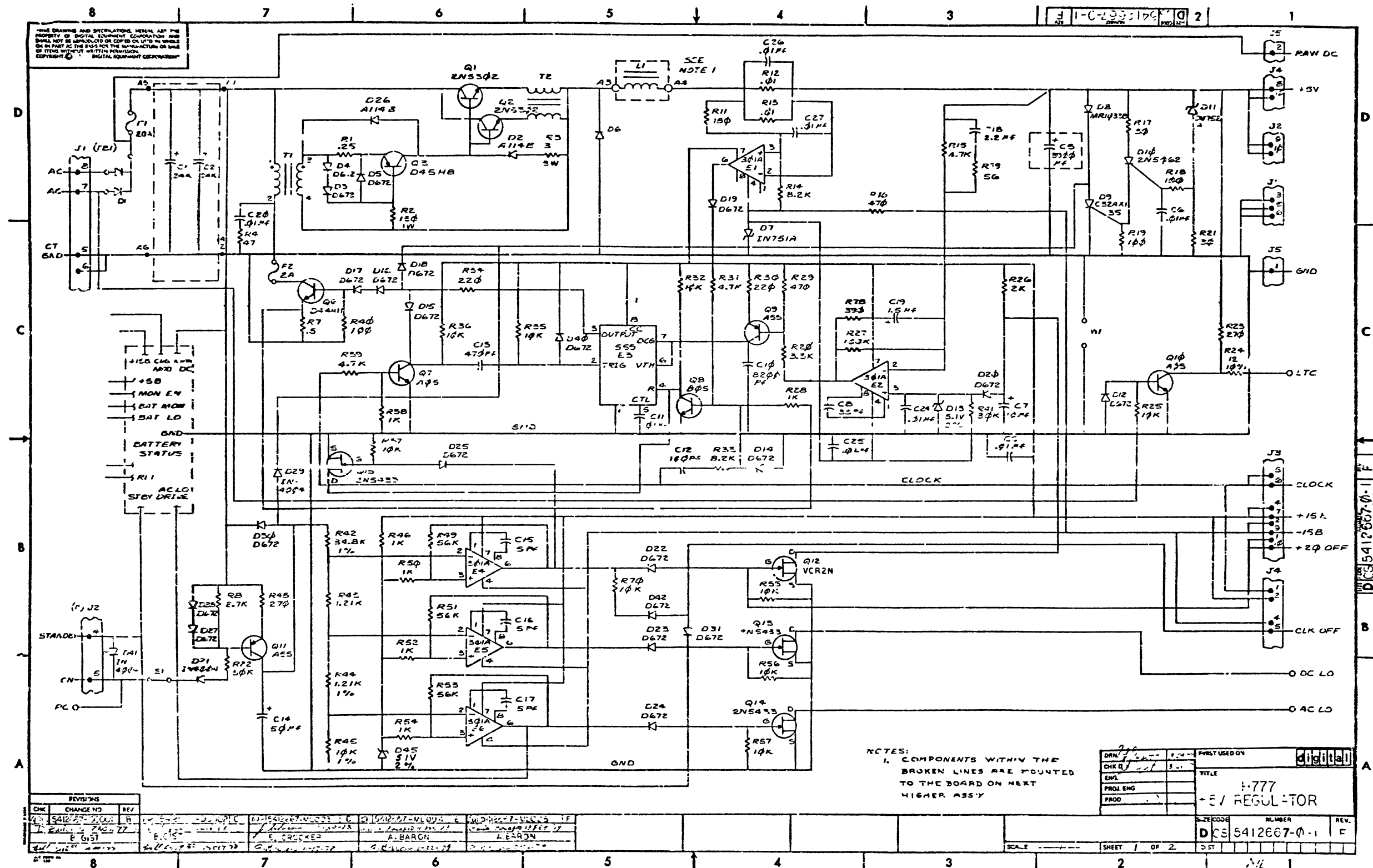
VIEW A-A
SCALE: NONE
(WIRING SIDE)

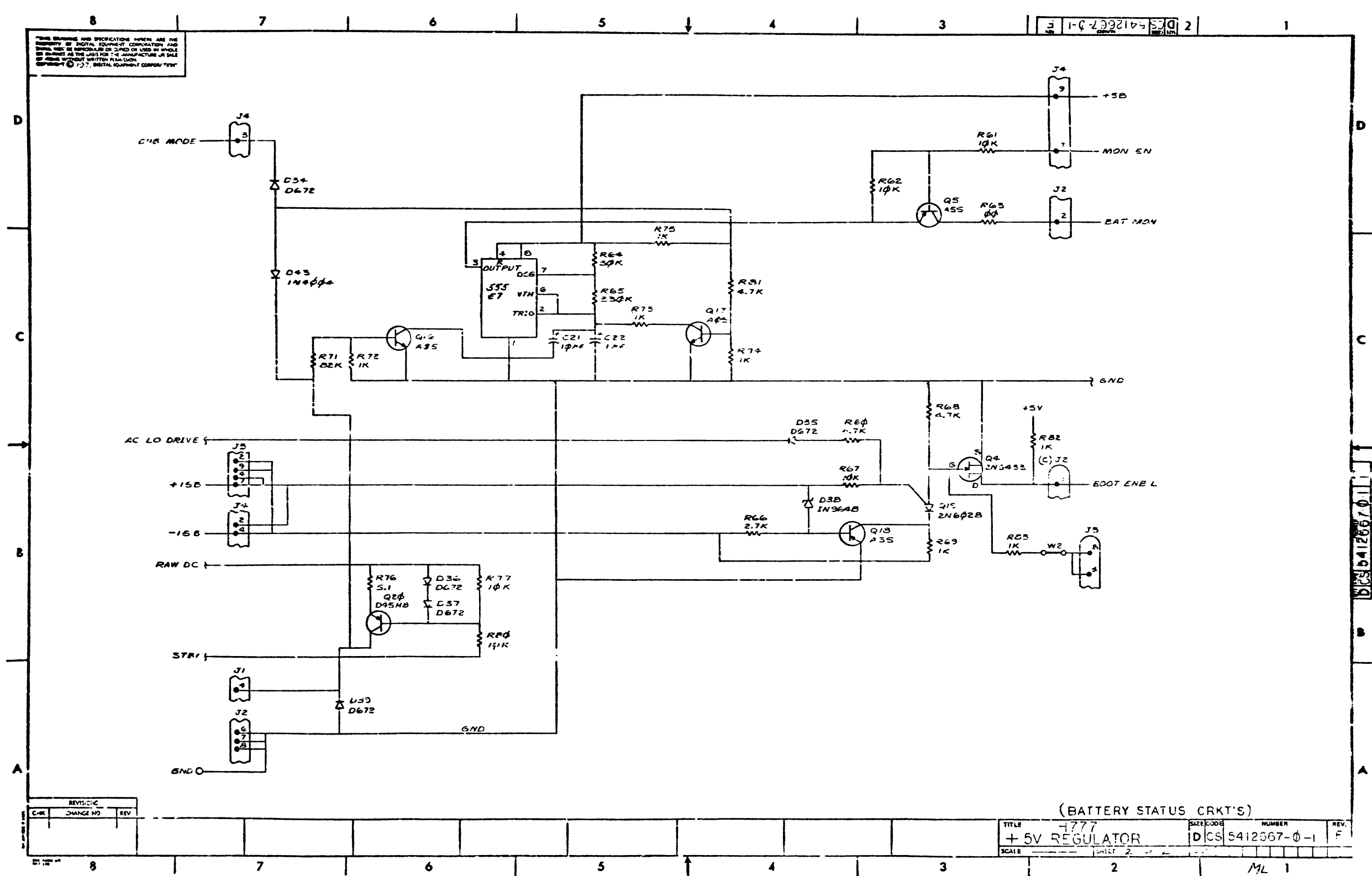
ITEM#9 NOT SHOWN
IN THIS VIEW

VIEW C-C

VIEW A-A
SCALE: NONE
(WIRING SIDE)







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LEGEND	
PART NO	VARIATION
7012910-0	120 V
7012910-1	240 V
7012910-2	120V (50 HZ)

WIRE CHART											
ITEM NO		DESCR		FROM		TO		REMARKS		ITEM NO	
NO	ANG	COLOR	CONN	WITH	CONN	WITH				NO	ANG
22	18	OR/WH	K1-4	SOLD,31	*TB2-33	SOLD	5 1/2" L			18	BLK
23	18	GR/WH	K1-6		*TB2-45	SOLD	5" L			18	BLK
24	18	WH/OR	K1-7		TB2-5H	25	5" L			18	RED
26	18	WH/GR	K1-9		TB2-6H	25	5" L			18	RED
27	18	GRY	K1-A				13 1/2" L			47	18
46	18	GR/BL	G2	SOLD,31	*TB2-63	SOLD	6" L			35	18
47	18	GR/BL	F1-1	SOLD,31	*TB2-45	SOLD	3" L			35	18
43	18	BRN	CBI(2) LOAD	28,31	*TB2-65	SOLD	7 1/2" L			13	22
45	14	BLU	CBI(1) LOAD	28,31	*TB2-15	SOLD	7 1/2" L			13	22
15	18	WH	*TB2-75	SOLD	J2-2	30,32	10" L			48	18
15	18	BLK	*TB2-55	SOLD	J2-1	30,32	9" L			49	18
15	18	WH	*TB2-75	SOLD	J3-2	30,32	10" L				
15	18	BLK	*TB2-55	SOLD	J3-1	30,32	15 1/2" L				

* INDICATES SOLDER CONN. SHARED WITH OTHER CONN. WITH SAME COMMON CONN.

NOTES:

- COVER ITEM 30 WITH ITEM 31. COVER ENTIRE CONN.
- TWISTED PAIR WIRE TO HAVE A MIN OF 8 TWIST PER FT AS PER WIRE CHART.
- ALL CONNECTIONS TO TB2 ARE TO BE MADE FROM SIDE INDICATED BY ARROW.
- USE TIE WRAPS (ITEM 38) AS NEEDED.
- T1 PRIMARY WIRES TO TB2 MUST BE ROUTED BY ITEM 4
- NO CONNECTION IS MADE AT THIS ASSY LEVEL REFER TO PRINT E-UM-H777-0-0
- FOR VARIATION -0,-1 USE ITEMS 16 AND 13. FOR VARIATION -2 SEE DETAIL 'F'.
- FOR VARIATION -0,-1 USE ITEM 40. FOR VARIATION -2, USE ITEM 50
- TWIST LEADS AND SOLDER. CUT LEADS AND USE SHRINK TUBING FOR INSULATION.

D

D

C

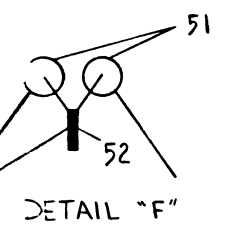
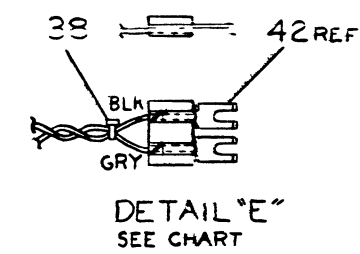
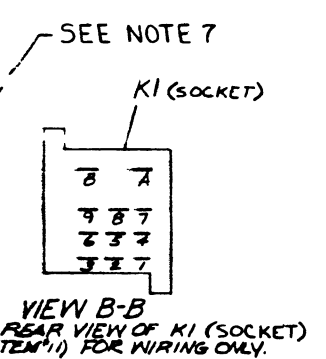
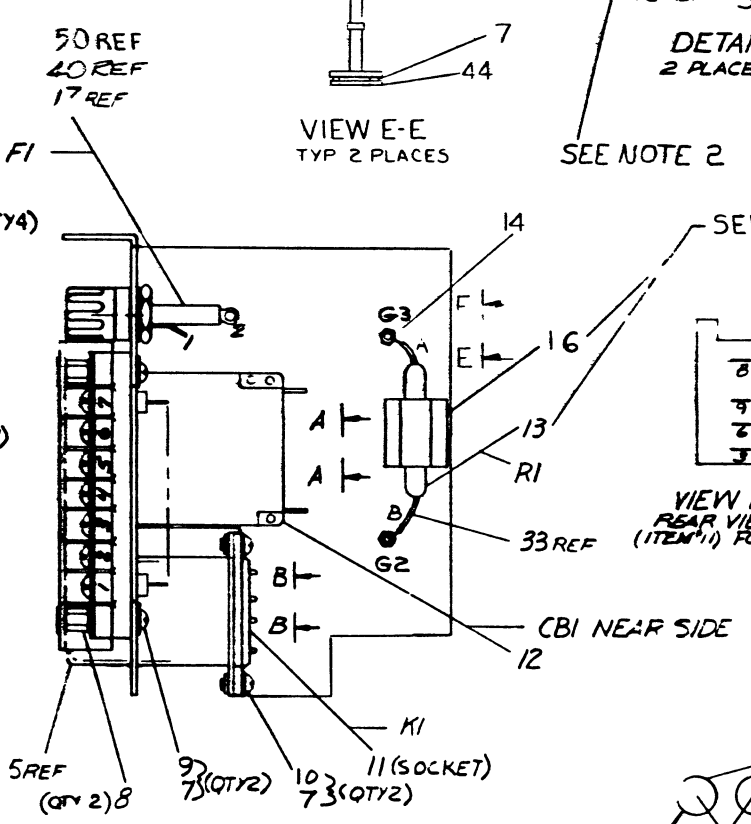
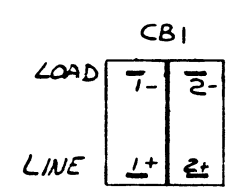
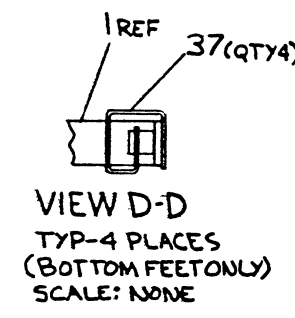
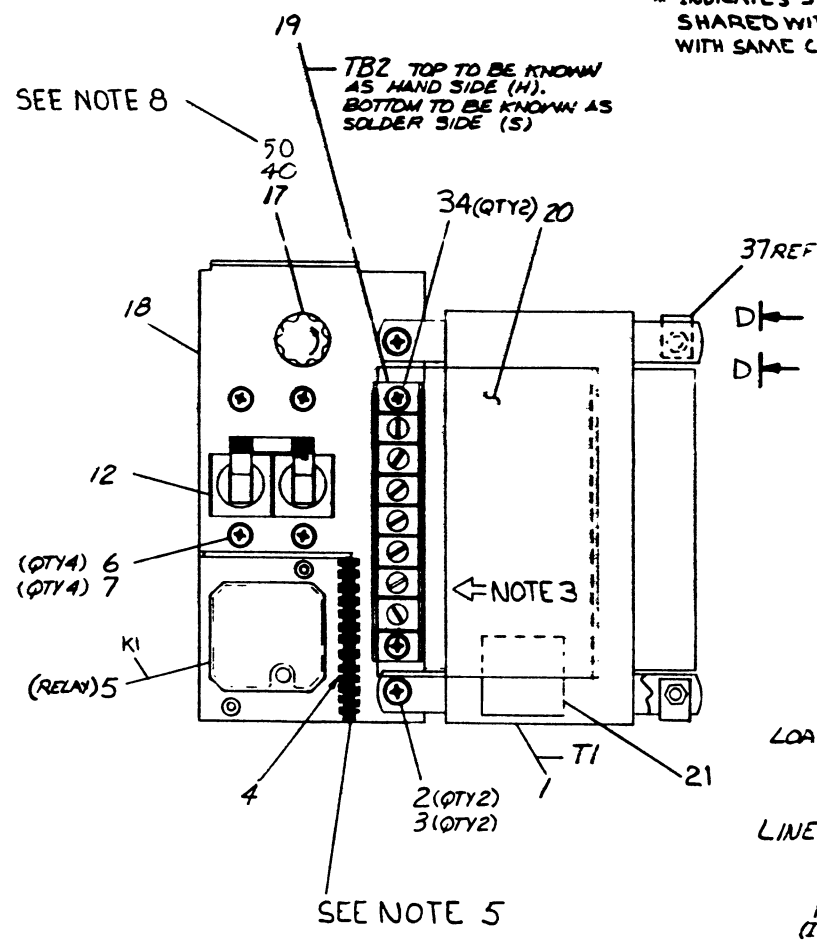
C

B

B

A

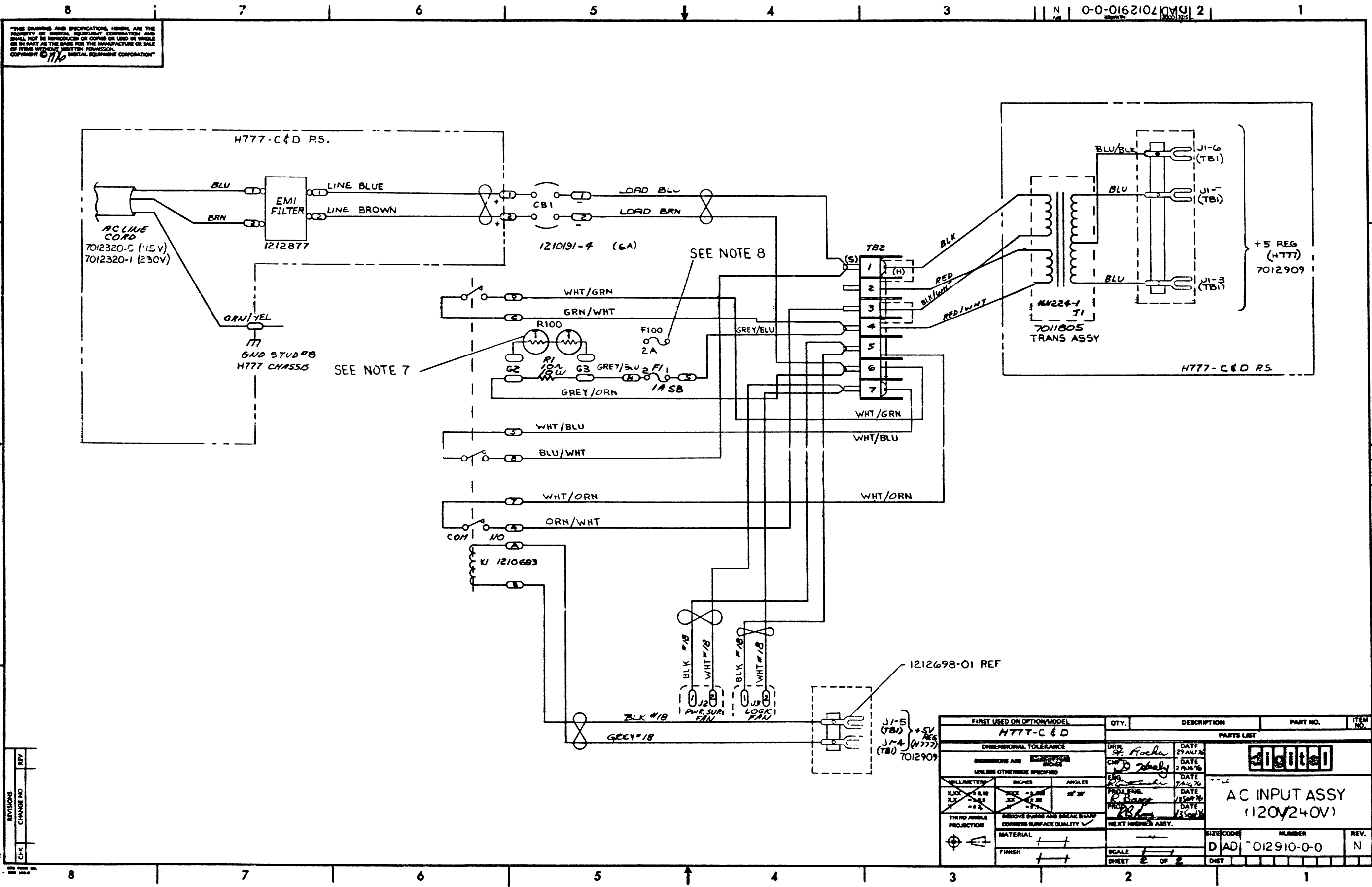
A



CAUTION: OFF SHEETS PARTS LIST EXISTS. SEE K-PL-7012910-0-DBP(Z4684)

REV	DATE	BY	CHKD	APPD	DESCRIPTION
1	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
2	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
3	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
4	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
5	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
6	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
7	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
8	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
9	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
10	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
11	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
12	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
13	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
14	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
15	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
16	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
17	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
18	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
19	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
20	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
21	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
22	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
23	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
24	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
25	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
26	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
27	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
28	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
29	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
30	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
31	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
32	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
33	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
34	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
35	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
36	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
37	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
38	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
39	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
40	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
41	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
42	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
43	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
44	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
45	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
46	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
47	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
48	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
49	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
50	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
51	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)
52	10/12/77	W. BAUSHA			AC INPUT ASSY (120V/240V)

THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS		DO NOT SCALE DWG		MATERIAL		FINISH	
DRN	W. BAUSHA	CHK'D	W. BAUSHA	ENG	W. BAUSHA	PROJ. ENG.	W. BAUSHA	PROD.	W. BAUSHA
NEXT HIGHER ASSY.		TITLE		AC INPUT ASSY (120V/240V)		SIZE		NUMBER	
D-UM-H777-0-0		SCALE		1:1		SHEET		OF 2	
DIST		REV		N		PART NO		7012910-0-0	



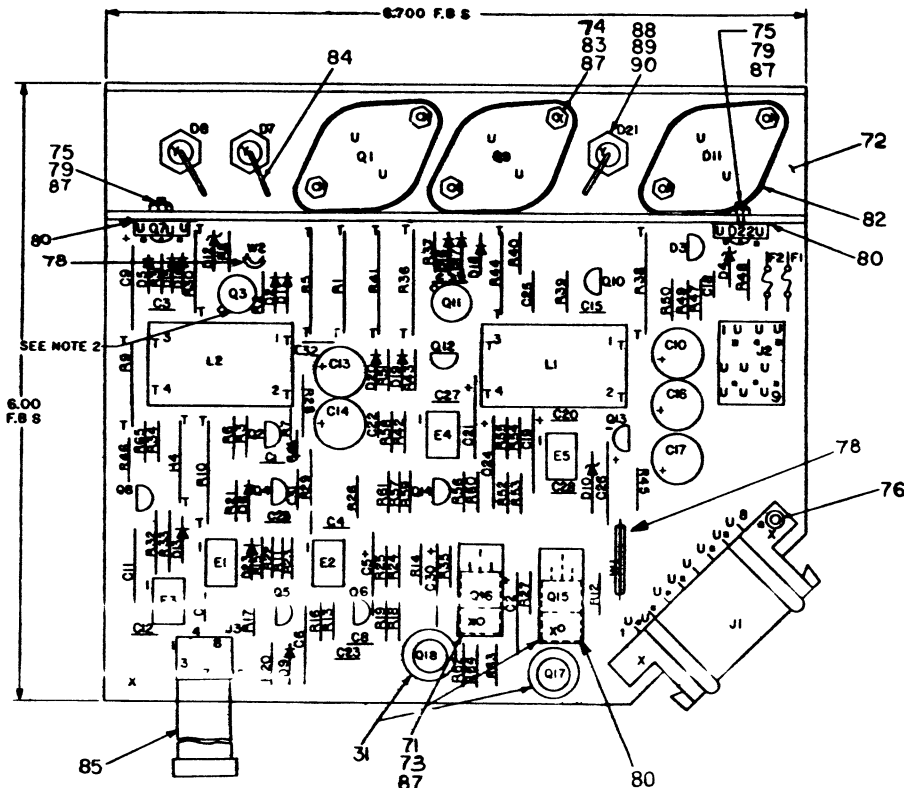
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION		
					00	01	02
31	31		9107305-02	TUBING,SHRINK 3/16DIA.EXP UL	A/R	A/R	A/R
32	32		1210820-01	SOCKET HOUSING	4	4	4
33	33		9107278-02	TUBING,THIN WALL,.042ID UL	A/R	A/R	A/R
34	34		9008020-02	SCREW,MACH FLAT PHIL 5-	2	2	2
35	35	B-IA-7011797-0-0	7011797-00	JUMPER 2" BLK	1	1	1
36	36	B-IA-7011798-0-0	7011798-00	JUMPER 2" WHT	1	-	1
37	37		9007786-00	RETAINER, U-NUT, 10-32	4	4	4
38	38		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	A/R	A/R	A/R
39	39	BLANK			0	0	0
40	40		9007212-00	FUSE,SLO BLO 1 A,250V GLASS	1	1	-
41	41	BLANK			0	0	0
42	42		1212698-01	TERM STRIP 2POS .375 SPACING	1	1	1
43	43		9107430-16	WIRE,TWP 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
44	44		9006656-00	WASHER,FLAT STEEL	2	2	2
45	45	C-IA-7417286-0-0	7417286-00	BRACKET, STOP	1	1	1
46	46		9107410-83	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
47	47		9107410-86	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
48	48		9107410-69	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
49	49		9107410-96	WIRE, 18AWG(19/30)IPVC 150V	A/R	A/R	A/R
50	50		9007216-00	FUSE,SLO BLO 2 A,250V GLASS	-	-	1
51	51		1317198-00	7.0 10.0 % NTC THERM	-	-	-
52	52		9107255-09	TUBING,SHRINK 1/8 DIA.EXP UL	-	-	A/R

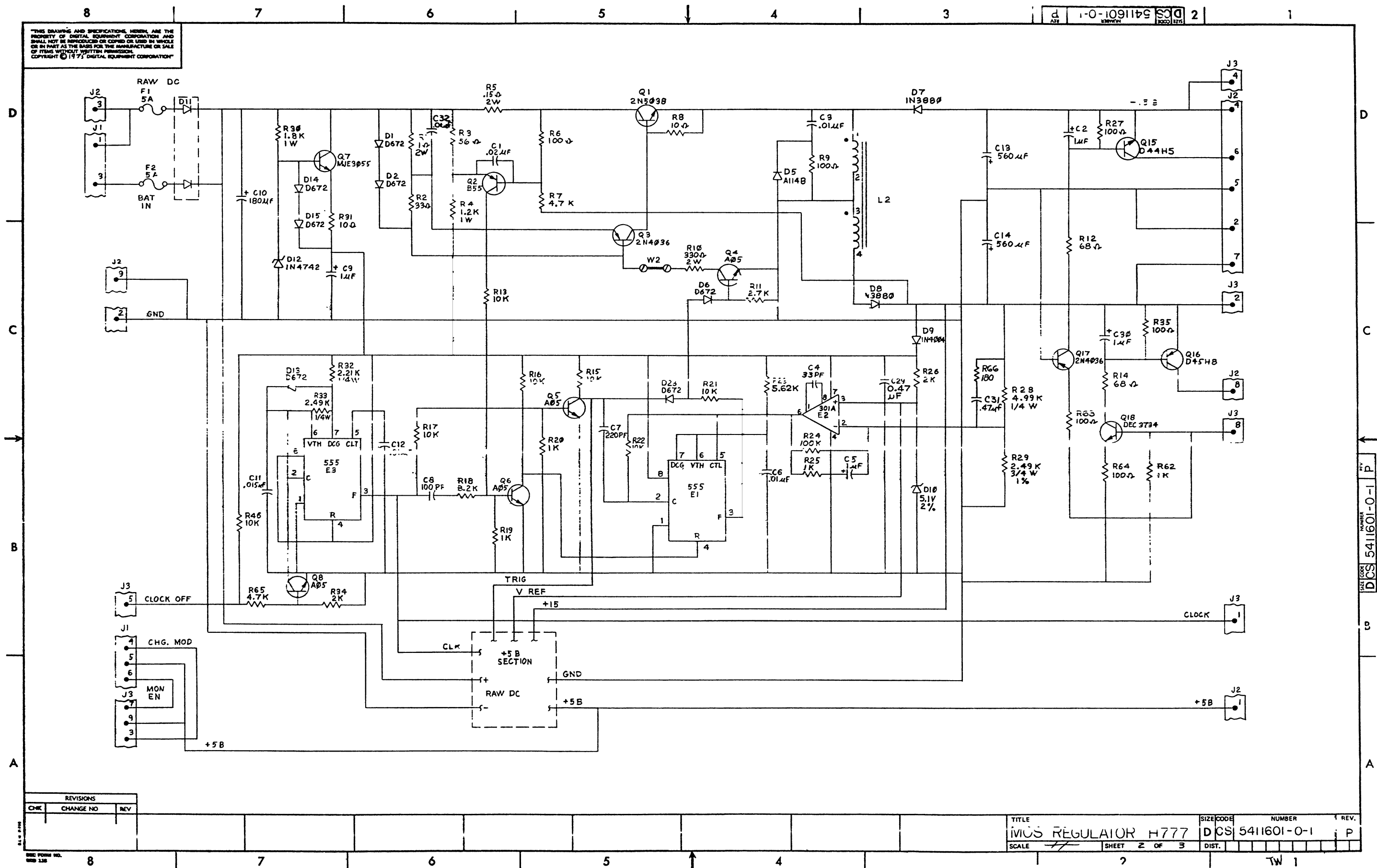
DIGITAL				TITLE		SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				A/C INPUT ASSY (120V/230V)			K	PL	7012910-0-DBF	N

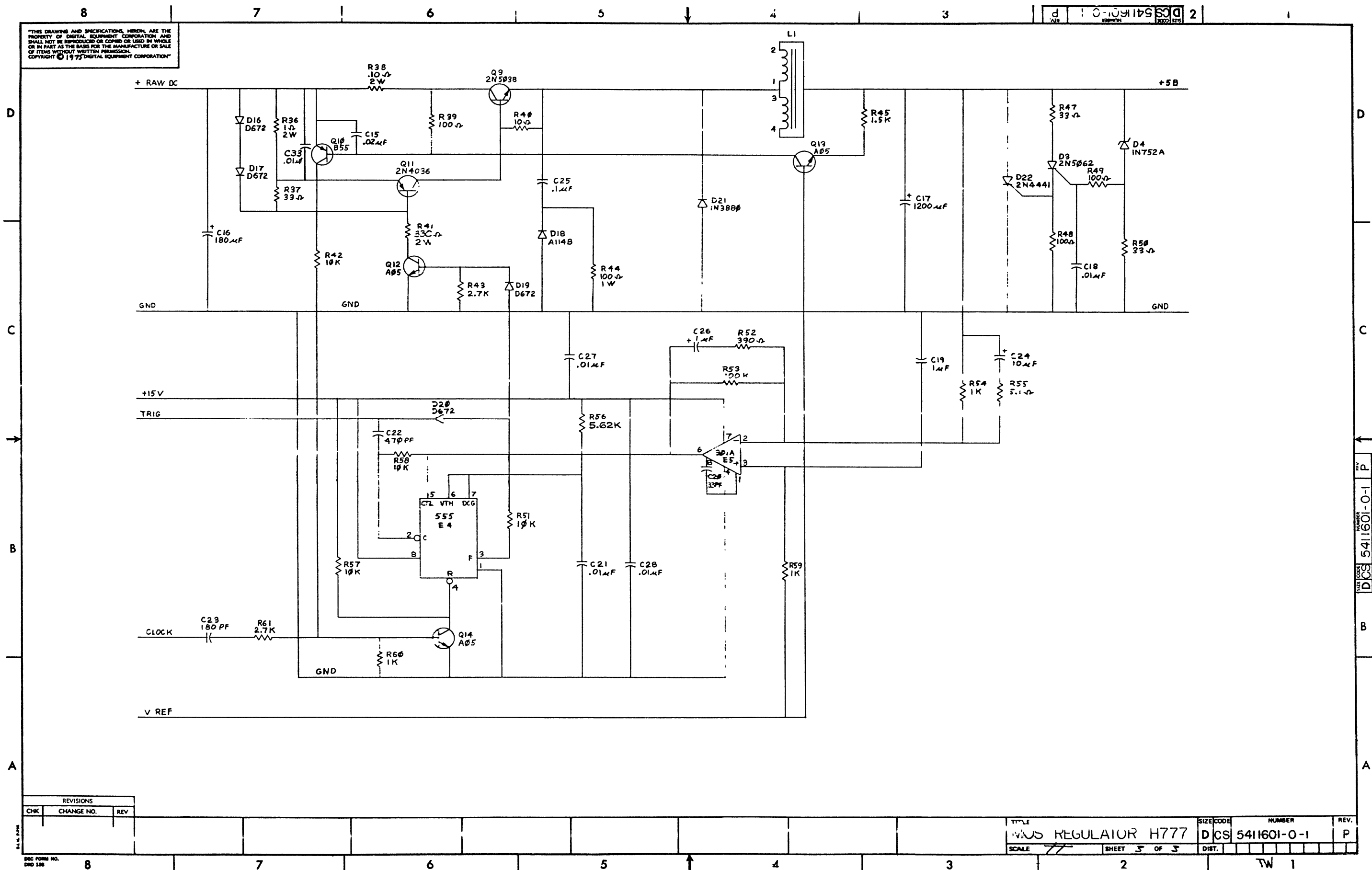
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NOTES:

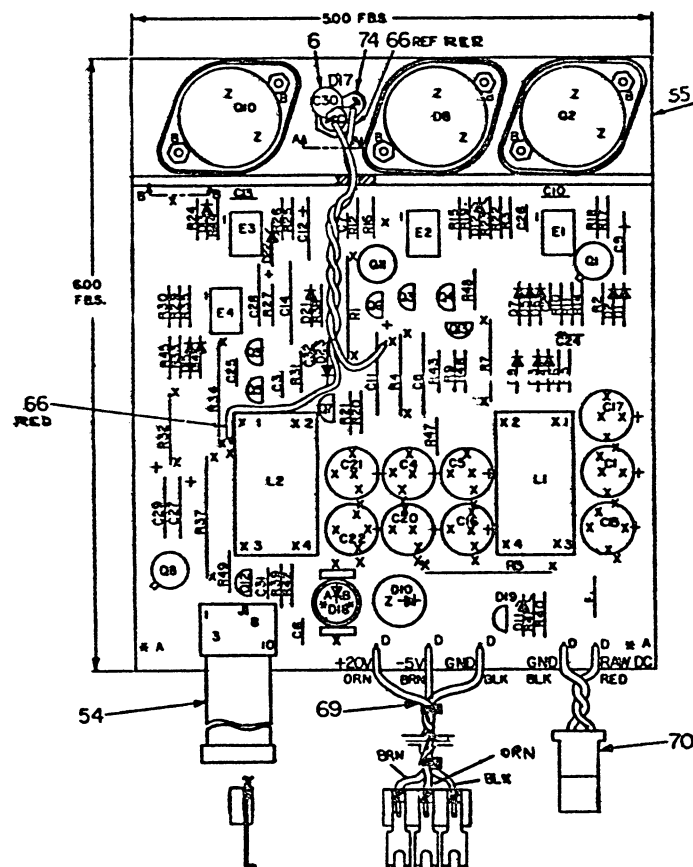
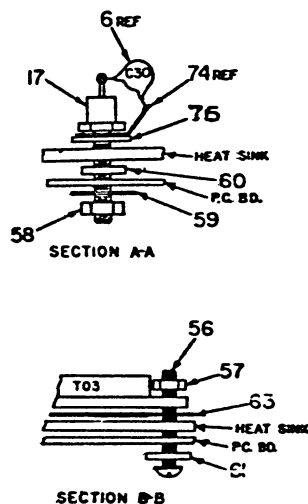
1. SEE PARTS LIST FOR CURRENT HDW. D7,D8,D21
2. USE TRANSIPAD DEC#9007201 UNDER Q3,Q11,Q17,Q18
3. TORQUE Q1, Q9, D7, D8, D11, & D21 HARDWARE TO 6-8 IN.-LBS.







USE TRANSIPAD DEC# 9007201 UNDER Q14Q8



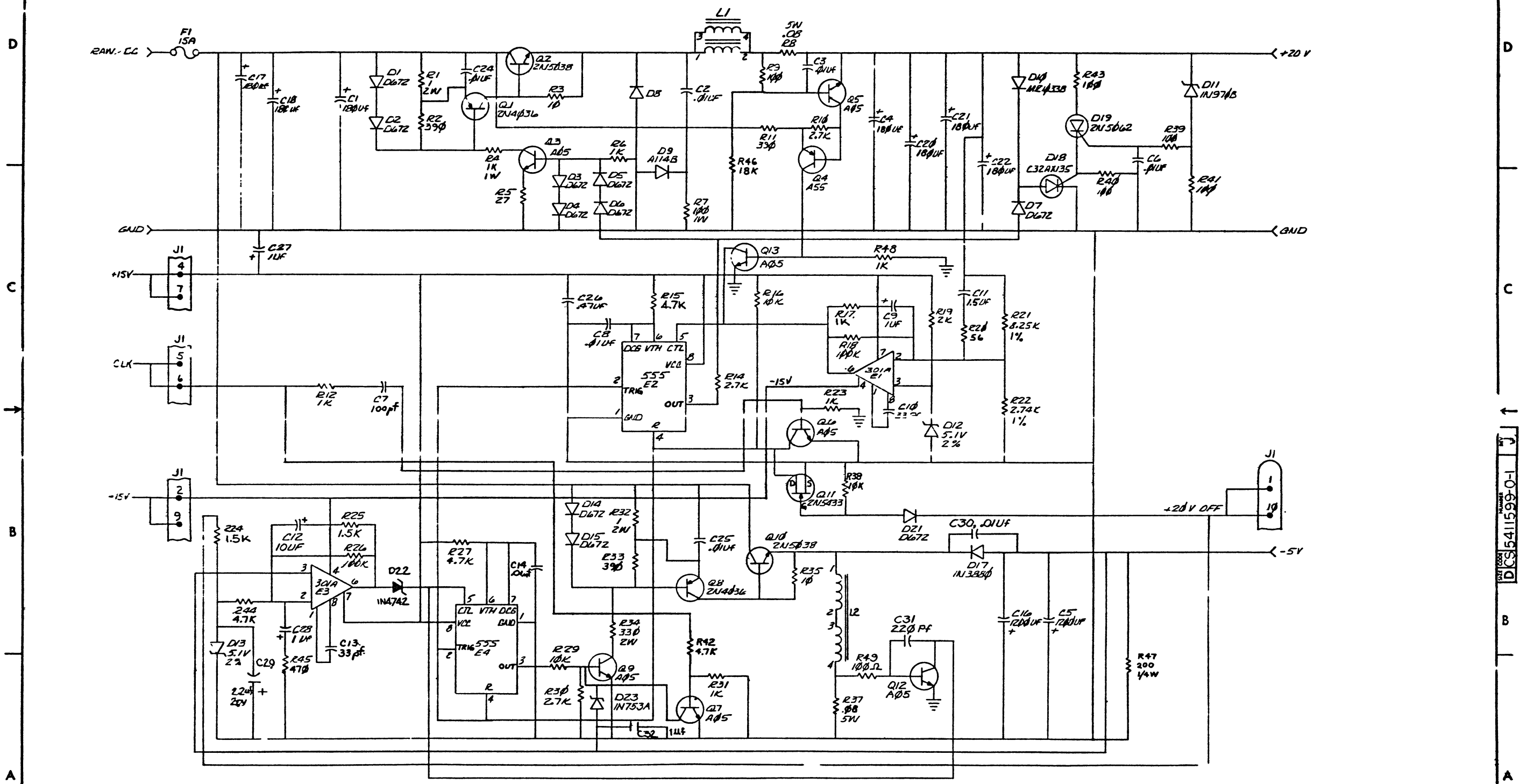
1		HEAT SINK	7416236-0-0	55	REF	X-Y COORDINATE HOLE LOCATION	K-CO-5411599-0-4	1
6		SCREW, #4-40 x 1/2 LG PH HD	9008015-1	56	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5411599-0-5	2
6		NUT, KEP #4-40	9008557	57	REF	MODULE ECO HISTORY	B-WH-5411599-0-6	3
1		NUT, HEX #10-32	9008584	58	1	ETCHED CIRCUIT BOARD	5011598	4
1		WASHER, FLAT	9008682	59	1 C7	CAPACITOR, 100PF, 100V, 5%	1000816	5
1		BUSHING, NYLON	9008440	60	6 C2,C3,C8,C30,C24,C25	CAPACITOR, .01uf, 100V DISC	1001618-01	6
8		WASHER, FLAT	9008172	61	3 C9, C27,C28	CAPACITOR, 1uf, 35V, 10% TANT	1001776	7
A/R		COMPOUND, THERMAL	9008268	62	2 C10,C13	CAPACITOR, 33pf, 100V OM	1000869	8
3		INSULATOR, TO 3	1213071-02	63	1 C11	CAPACITOR, 15uf, 35V, 10% TANT	1009725	9
1		WASHER, FLAT	9008440	64	2 C8,C14	CAPACITOR, .01uf, 100V, 10% NYLAR	1005784	10
2		TRANSIPAD	9007201	65	1 C31	CAPACITOR, 220pf, 100V, 5%	1000021	11
A/R		WIRE #18 AWG, TWISTED PAIR	9107430-02	66	2 C5,C18	CAPACITOR, 1200uf, 83V	1012697-01	12
1	C29	CAPACITOR 22UF 20V	1002627	67	7 C1,C17,C18,C4,C2QC21,C22	CAPACITOR, 180uf, 50V	1012697-02	13
1	A47	RESISTOR 200, 1/4W, 5%	1311522	68	1 D22	DIODE, 1N4742	1109502	14
1		HARNESS (THREE WIRE)	C-7A 7012547-0-0	69	1 D10	DIODE, M10338	1103341	15
1		HARNESS (TWO WIRE)	C-7A 7012546-0-0	70	10 D1 THRU D7, D14,D15, D21	DIODE, D872	1105275	16
1	C12	CAPACITOR, 10uf, 20V, 10%, TANT	1004813	71	1 D17	DIODE, 1N3869	1109448	17
1	D23	DIODE, 1N753A	1102421	72	2 D12,D13	DIODE, 1N751, 5.1V 2%	1110713	18
1	C26	CAPACITOR, .47uf, 25V, 10%, CER	1010279	73	1 D8	DIODE	1110715	19
1		SOLDER, TERM., SCREW MTG	9007815	74	1 D11	DIODE, 1N4789	1110858	20
1		SIL PAD .800 DIA	1213071-05	75	1 D19	DIODE, 2N5782	1110968	21
1	C32	CAP. 1UF 50V CER.	1010274-02	76	1 D9,	DIODE, A1148	1112595-01	22
				1 F1	FUSE, 15A, PICO		1210329	23
				1 R46	RESISTOR, 18K, 1/4W, 5%		1302465	24
				6 R9,R39,R40,R41,R43,R49	RESISTOR, 100, 1/4W, 5%		1300229	25
				1 R7,	RESISTOR, 100, 1W, 5%		1300232	26
				3 R11, R2,R33	RESISTOR, 390, 1/4W, 5%		1300309	27
				6 R8,R12,R23,R31,R17,R48	RESISTOR, 1K, 1/4W, 5%		1300385	28
				3 R10, R14, R30	RESISTOR, 2.7K, 1/4W, 5%		1300428	29
				4 R42,R44, R15,R27	RESISTOR, 4.7K, 1/4W, 5%		1300447	30
				1 R4	RESISTOR 1K, 1W, 5%		1300368	31
				3 R18, R29,R38	RESISTOR, 10K, 1/4W, 5%		1300479	32
				2 R3,R35	RESISTOR, 10, 1/4W, 5%		1301317	33
				1 R45	RESISTOR, 470, 1/4W, 5%		1300316	34
				1 R5	RESISTOR, 27, 1/4W, 5%		1301522	35
				1 R34	RESISTOR, 330, 2W, 10%		1301961	36
				1 R19	RESISTOR, 2K, 1/4W, 5%		1302308	37
				2 R18,R28	RESISTOR, 100K, 1/4W, 5%		1302408	38
				1 R22	RESISTOR, 2.74K, 1/4W, 1%		1304088	39
				2 R1,R32	RESISTOR, 1, 2W, 5% WW		1305428	40
				2 R24, R25	RESISTOR, 1.5K, 1/4W 5%		1300391	41
				1 R21	RESISTOR, 8.25K, 1/4W, 1%		1304428	42
				2 R8,R37	RESISTOR, .08, 5W, 3% WW		1311683	43
				1 R20	RESISTOR, 56, 1/4 W, 5%		1302602	44
				2 Q1,Q8	TRANSISTOR, 2N4838		1509788	45
				7 Q3,Q5,Q6,Q7,Q9,Q12,Q13	TRANSISTOR, XAF5		1510705	46
				1 Q4	TRANSISTOR, XA55		1510788	47
				1 D18	TRANSISTOR, C32AX135		1510920	48
				2 Q2,Q10	TRANSISTOR, 2N5038		1510969	49
				1 Q11	TRANSISTOR, 2N5433		1511086	50
				2 L1,L2	INDUCTOR, 500uh		1612593	51
				2 E1,E3	I.C. DEC 301A		1910282	52
				2 E2,E4	I.C. DEC 555		1911944	53
				1 J1	CABLE ASSY		7011414 -OE	54
QTY		REF. DESIGNATION			DESCRIPTION		PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL				PARTS LIST												
ETCH-BOARD REV.				0												
				DRN.	DATE				digital +20V REGULATOR/H777							
				CHKD.	DATE											
				ENG.	DATE											
				PROL. DESIG.	DATE											
				PROD.	DATE											
				NEXT HIGHER ASSY	DATE											
E-UA-H777-0-0				TITLE												
DEC NO.				EIA NO.				DEC NO.				EIA NO.				
SEMICONDUCTOR CONVERSION CHART																
SHEET				OF				SIZE CODE				NUMBER				
D				CS				5411599-0-1				REV.				
J																

1	5411599-00003	J
2	5411599-00004	J
3	5411599-00005	J
4	5411599-00006	J
5	5411599-00007	J
6	5411599-00008	J
7	5411599-00009	J
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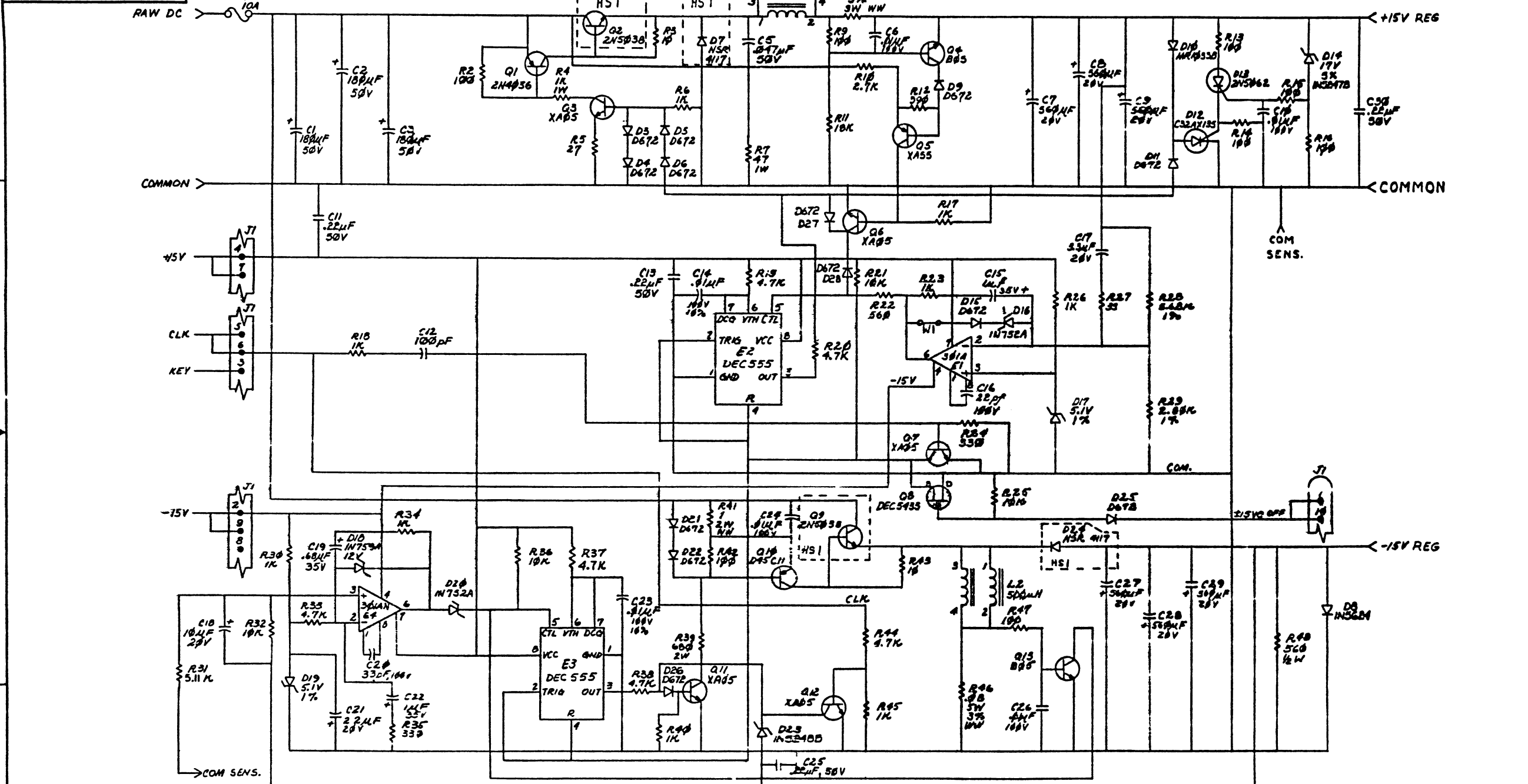
SEMICONDUCTOR CONVERSION CHART

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REVISIONS		
CHK	CHANGE NO	REV

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REV	CHG	NO.	BY	DATE
1		1	W. BAUSHA	11/1/60
2		2	W. BAUSHA	11/1/60
3		3	W. BAUSHA	11/1/60
4		4	W. BAUSHA	11/1/60
5		5	W. BAUSHA	11/1/60
6		6	W. BAUSHA	11/1/60
7		7	W. BAUSHA	11/1/60
8		8	W. BAUSHA	11/1/60

DWN 10/20/60		4/2/67		FIRST USED ON	
CHKD 10/20/60		11/1/60		H777-UA,UB	
ENCL 11/1/60		11/1/60		TITLE	
PROL ENG 11/1/60		11/1/60		±15V	
PROD 11/1/60		11/1/60		REGULATOR	
NEXT HIGHER ASSY.		B-00-5413764-0		SIZE CODE	
SCALE		D		NUMBER	
SHEET 1 OF 1		DIST.		REV.	

SHEET A1 OF A3

REVISION HISTORY			BASIC PART NO: 5413764		DRN: PAUL NORMAN		DATE: 07-JAN-80		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: P. BOSSMAN		DATE: 09-JAN-80		TITLE PARTS LIST	
---	INITIAL	A	SECTION VARIATION INDEX		DES. ENG: W. SAUSHA		DATE: 08-JAN-80		PLUS/MINUS 15V REGULATOR	
WB	5413764-TW001	B	[A]	00	RESP. ENG.: W. SAUSHA		DATE: 18-MAR-80		DOCUMENT NUMBER	
			[B]		MFG. ENG.: JOSE OLIVENCIA		DATE: 18-MAR-80		SIZE CODE NUMBER REV	
			[C]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
			[D]		D-UA-5413764-0-0		B-DD-5413764-0-0		202348.PLS	
			[E]						EDIT =	
			[F]						35	
			[G]							
			[H]							
			[I]							
			[J]							
			[K]							
			[L]							
			[M]							
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
30	30		1213071-05	INSULATOR,RUBBER THERMAL	2		
31	45		1300197-00	33.0 .25 W 5.0 % CC	1		R27
32	32		1300229-00	100.0 .25 W 5.0 % CC	9		R2,R9,R13-R16,R42,R47
33	31		1300250-00	*** THIS ITEM IS NOT USED ***	-		
34	34		1300295-00	330.0 .25 W 5.0 % CC	2		R35,R24
35	35		1300309-00	390.0 .25 W 5.0 % CC	1		R12
36	36		1300338-00	560.0 .50 W 5.0 % CC	1		R48
37	37		1300348-00	680.0 2.0 W 5.0 % CC	1		R39
38	38		1300365-00	1.0 K .25 W 5.0 % CC	9		R6,R17,R18,R23,R26,R30,R34,R40,
						CONT	R45
39	39		1300368-00	1.0 K 1.0 W 5.0 % CC	1		R4
40	40		1300426-00	2.70 K .25 W 5.0 % CC	1		R10
41	41		1300447-00	4.70 K .25 W 5.0 % CC	6		R19,R33,R37,R38,R44,R20
42	42		1300479-00	10.0 K .25 W 5.0 % CC	3		R21,R25,R36
43	43		1301317-00	10.0 .25 W 5.0 % CC	2		R3,R43
44	44		1301522-00	27.0 .25 W 5.0 % CC	1		R5
45	81		1301890-00	560.0 .25 W 5.0 % CC	1		R22
46	33		1302199-00	47.0 1.0 W 5.0 % CC	1		R7
47	45		1302465-00	18.0 K .25 W 5.0 % CC	1		R11
48	47		1305128-00	5.62 K .25 W 1.0 % RN55D-F13	1		R28
49	48		1305145-00	2.80 K .25 W 1.0 % RN55D-F13	1		R29
50	49		1305428-00	1.0 2.0 W 5.0 % WW	1		R41
51	50		1311603-00	.08 5.0 W 3.0 % WW	1		R46
52	51		1304854-00	5.11 K .25 W 1.0 % RN55D-F13	1		R31
53	52		1316597-00	.15 3.0 W 3.0 % WW	1		R8
54	53		1509700-00	2N 4036 PNP 7WC SI 80100 M	1		Q1
55	54		1510705-00	XA 05 NPN 500MW SI 60 50 F	5		Q3,Q6,Q7,Q11,Q12
56	55		1510705-01	B 05 NPN 500MW SI 60 50 F	1		Q4,Q13
57	56		1510706-00	XA 55 PNP 500MW SI 60 50 F	1		Q5
58	57		1510928-00	032AX135 SCR3100V I=25A	1		D12
59	58		1510969-00	2N 5038 NPN 140WC SI 90 50 Y	2		Q2,Q9
60	59		1511686-00	DEC5433 FET N 350MW 10 25 1A	1		Q8
61	60		1514431-00	D 45C11 PNF 30W SI 80 40	1		Q10
62	61		1612593-00	500 UH 6A	2		L1,L2
63	62		1910282-00	301AN OP AMP	2		E1,E4
64	63		1911944-00	555CN TIMER,FUNCT.BLOCK	2		E2,E3
65	90	D-MD-5013763-0-0		DRILL & ETCH SRD	REF		
66	64		7011414-0E	3M CABLE H777 CORE	1		J1
67	65	C-IA-7012546-0-0	7012546-00	TWO (2) WIRE CABLE	1		
68	66	C-IA-7012547-0-0	7012547-00	THREE (3) WIRE CABLE	1		
69	67	C-IA-7422935-0-0	7422935-00	HEAT SINK	1		HS1
70	68		9006013-01	SCREW,PAN,PHIL 4-40K 1/2 SS	4		
71	69		9006557-00	NUT,KEP 4-40X 1/4 AF	4		
72	72	(FOR Q1)	9007201-00	TRANSIPADS #10253	1		
73	73		9007815-00	TERM LUG 1 4STUD LOCKING	1		
74	71		9007905-00	WASHER,LOCK,SPILT .3340D X .200I	2		
75	74		9008172-00	WASHER, FLAT,SS .250 OD X .125 I	4		
76	76		9008440-00	BUSHING,INSUL,NYLON .24800 .125	2		

D	I	G	I	T	A	L	TITLE	PLUS/MINUS 15V REGULATOR	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	RE.
										K	PL	5413764-0-DBP	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
77	70	(USED UNDER D12)	9009005-00	NUT, HEX 10-32 X 1/4 AF X 3	2	
78	77		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
79	78		9009222-00	CLIP, SCR, ADAPTOR	1	
80	82		9107360-22	WIRE, STRND, 18AWG, IPVC UL1429	A/R	
81	79		9107430-02	WIRE, STRND, 18AWG, IPVC (UL1429)	A/R	
82	83		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	1	R32
83	84		9008880-00	TAPE, FIBER GLASS 1/2" X 66 FT.	A/R	
84	85		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
85	86		9006731-00	EYELET, (BRASS NICKEL PLATED) .0	1	

D	I	G	I	T	A	L	TITLE	PLUS/MINUS 15V REGULATOR	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	FL	5413764-G-DEP	B

8

DUA5413764-0-0 B

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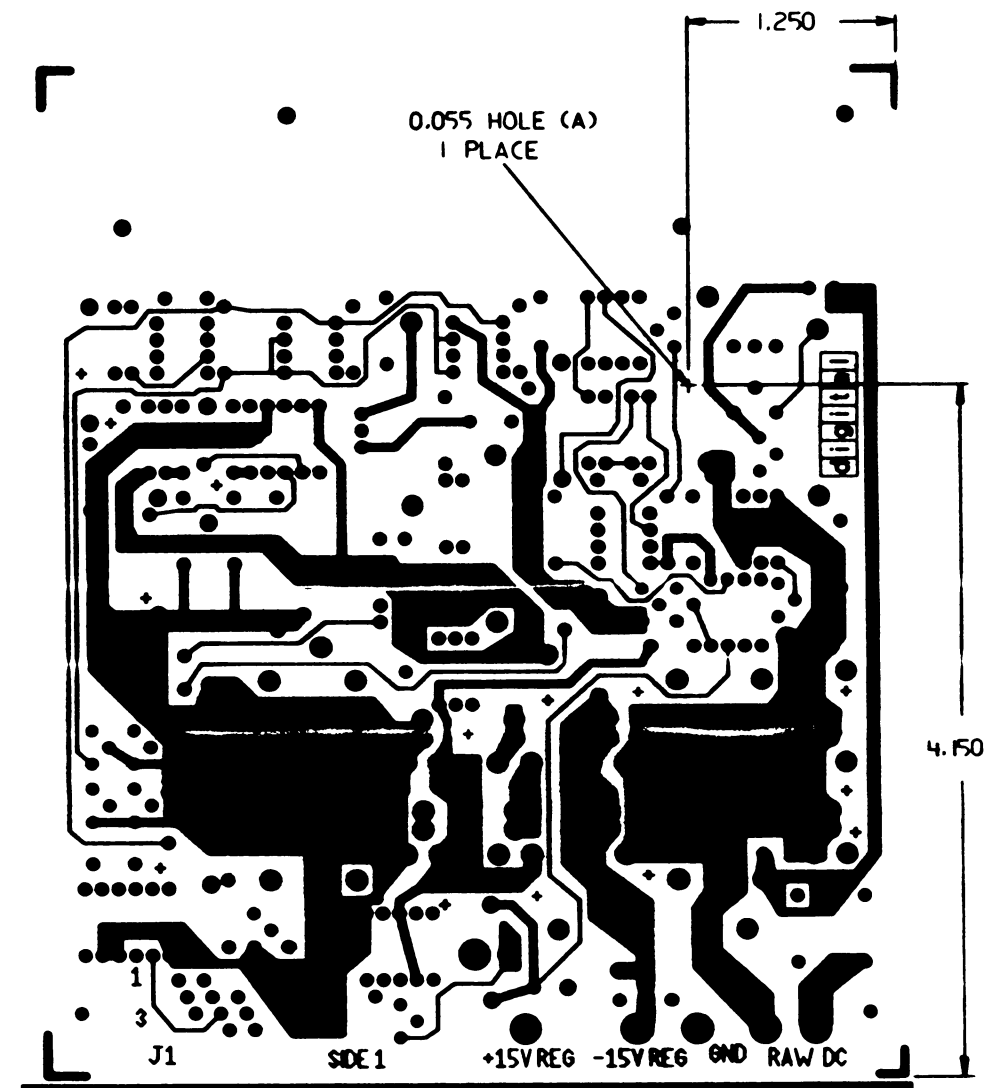
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D

C

B

A



D

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DUA5413764-0-0 B

REVISIONS		
DATE	ECO NUMBER	REV

8

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±15V REGULATOR

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	5413764-0-0	B
SCALE	2/1	SHEET 2 OF 3

8

8 0-3-49764-0-0

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REWORK INSTRUCTIONS

WIRE ADDS

0-1 ADD A WIRE AT J1 PIN2 TO FEED THRU LEFT OF R46.

ECO #1

1-2 INSTALL AN EYELET (ITEM 86) BY DRILLING A .055 HOLE. POSITION OF HOLE PER SHEET 2 OF UA DRAWING.

1-3 ADD A DIODE (D27) FROM R20 PTH TO THE PTH OF Q6'S COLLECTOR. ANODE TO R20.

1-4 ADD AN ECO WIRE (ITEM 85) FROM PTH OF Q6'S COLLECTOR TO THE EYELET (ITEM 86)

1-5 ADD A DIODE D28 FROM R22'S PTH TO EYELET (ITEM 86). ANODE OF D28 TO D22.

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REVISION HISTORY

DATE	ECO NUMBER	REV
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DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV
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D	UA	5413764-0-0	B
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SCALE	NONE	SHEET	3 OF 3
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TITLE
±15V REGULATOR

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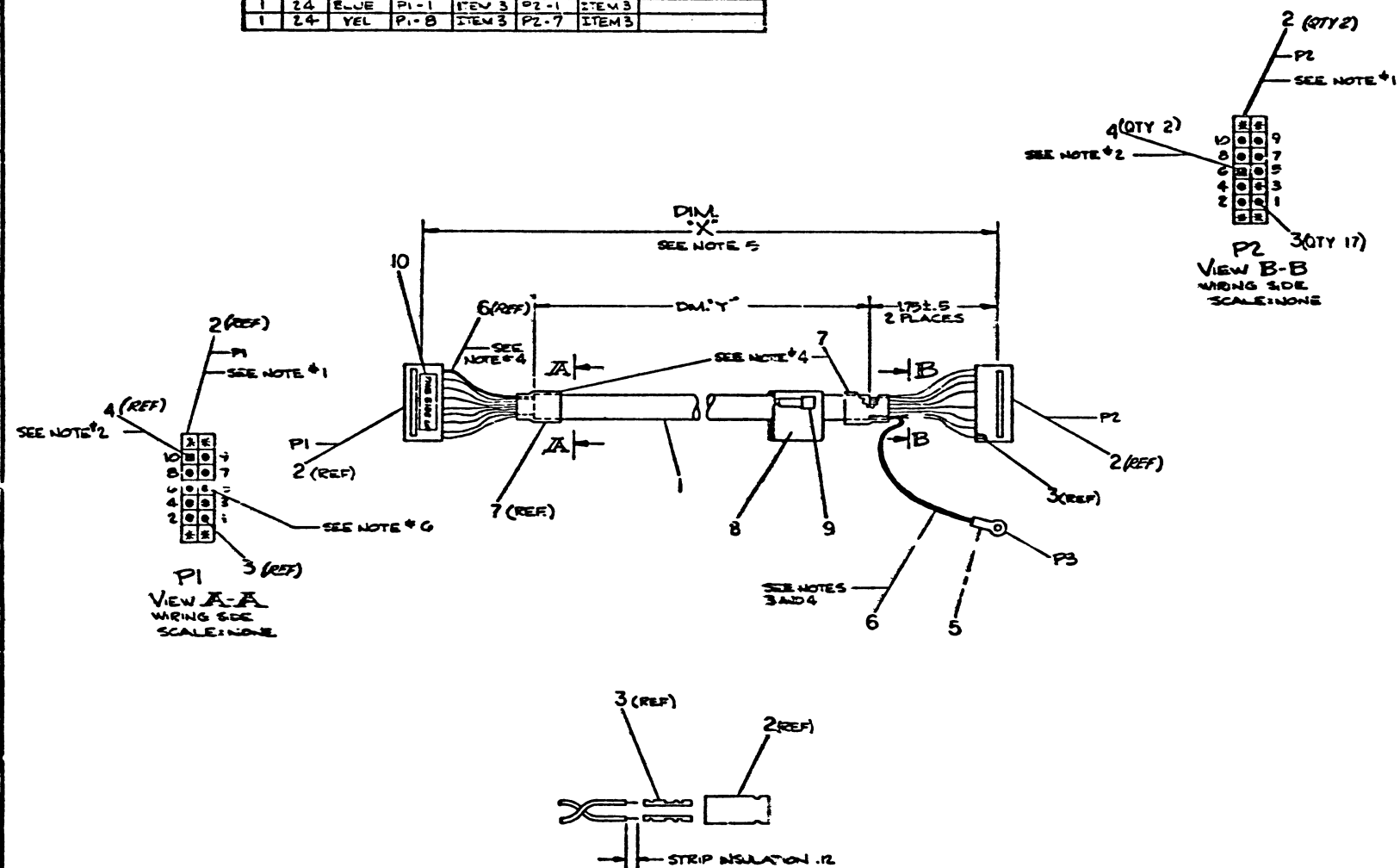
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ITEM		DESCRIPTION	FROM		TO		REMARKS
NO	ANG	CO-ORD	CONN	W/TH	CONN	W/TH	
1	24	DRA	P1-5	ITEM 3	P3	ITEM 5	SEE NOTES 2 & 3
1	24	RED	P1-4	ITEM 3	P2-5	ITEM 5	
1	24	WIT	P1-7	ITEM 3	P2-4	ITEM 3	
1	24	SRN	P1-6	ITEM 3	P2-8	ITEM 3	
1	24	BLK	P1-4	ITEM 3	P2-4	ITEM 3	
1	24	BRN	P1-3	ITEM 3	P2-2	ITEM 3	
1	24	GRN	P-2	ITEM 3	P2-0	ITEM 3	
1	24	BLUE	P1-1	ITEM 3	P2-1	ITEM 3	
1	24	YEL	P1-8	ITEM 3	P2-7	ITEM 3	

LEGEND		
P/N	Dim. "X"	Dim. "Y"
-00	9 in.	6 in
-01	8 ft	7 ft 9 in

NOTES:

1. LOCATIONS MARKED (M) IN VIEWS A-A & B-B ARE NOT TO BE USED.
2. CONDS P1-0 & P2-0 SHALL HAVE ONE KEY (ITEM #6) INSERTED AS SHOWN.
3. WIRE FROM P1-5 TO ITEM #3 SHALL BE 1/4" LONGER THAN WIRES FROM P2 TO P.
4. CUT EXTRUDED TUBING (ITEM #6) TO FIT LENGTH OF DRAIN WIRE AT EACH END. APPLY TUBING AND SUT TO CABLE JACKET. CUT SHEATH TUBING TO 1/4" LG. PIECES AND INSTALL AS SHOWN AT EACH END BEFORE INSTALLING CONNECTORS P1 & P2.
5. CUT LENGTH (EXCEPT FOR DRAIN AT P3 END).
6. SLIDE EXTRUDED TUBING (ITEM #6) OVER DRAIN WIRE BEFORE CRIMPING CONTACTS P3/P15



1	1	LABEL (THIS SIDE UP)	364562-02	10
1	1	TE-CABLE 55TIN-M	9007531-03	3
1	1	LABEL CABLE 1T	9007531-03	3
2	2	TE-CABLE SHOCKING 250T D.	9107531-03	3
5	5	TE-CABLE STRUTED 22AWG -02TID.	9107531-03	6
1	1	RING TERMIN 15 POS. 22-20AWG	1216675-00	5
2	2	KEY, POLAR. DJMMY	9006640-00	4
17	17	SOCKET, CRIMP, REEL.	12100248-07	3
2	2	TERMIN. MSG (14 POS)	1210093-00	2
6	6	CABLE, #24 AWG STRND (SECOND)	1700153-02	1

7010-962-01 7010-962-01	DESCRIPTION		DRAWING NO.		PART NO.		TEN NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEJ STD 118)						
	INCHES TOLERANCES	ANGLES ± 9° 30'	APPLICABLE DIMENSION RANGE (EXC'D END)	GR 28	OVER	UNDER	OTHER
				TO	TO	TO	OTHER
	SURFACE QUALITY						
	QUANTITY & VARIATION	✓ MICROFINISH	☐	☒ 0.004	☒ 0.003	☒ 0.012	☒ 0.005
THIRD ANGLE PROJECTION		DWG. C.V. SCHEITINGO		DATE 23 JAN 60		TITLE CABLE, CONSOLE TO BACKPLANE	
DO NOT SCALE DRAWING		DWG. 7010-962-01		DATE 5-1-60			
REMOVE BURRS AND BREAK SHARP CORNERS		DESIGN P. J. [Signature]		DATE 4-22-60			
MATERIAL SEE PARTS LIST		REP. DWG. [Signature]		DATE 4-27-60			
FINISH —————		WFO [Signature]		DATE 5-3-60			
		E-11A-11V 1-3-60		SIZE / COLOR		REVISION	
				DIA 7010962-C-D		REV 2	

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